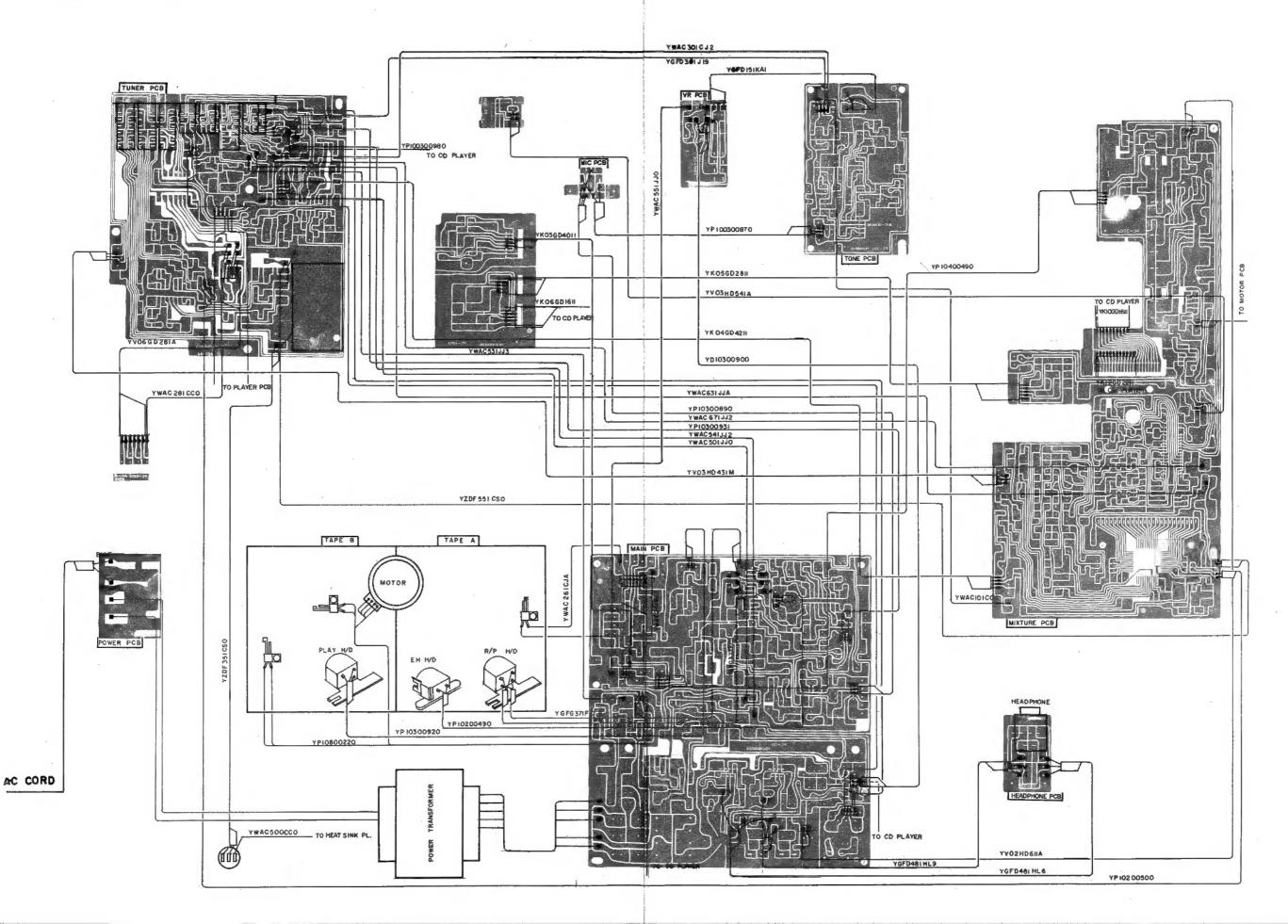
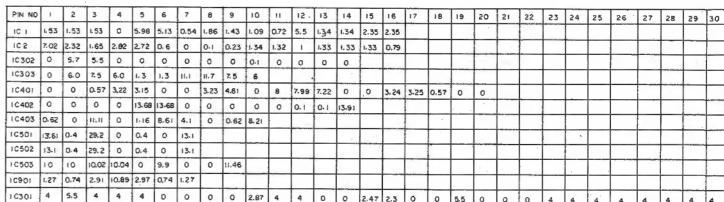
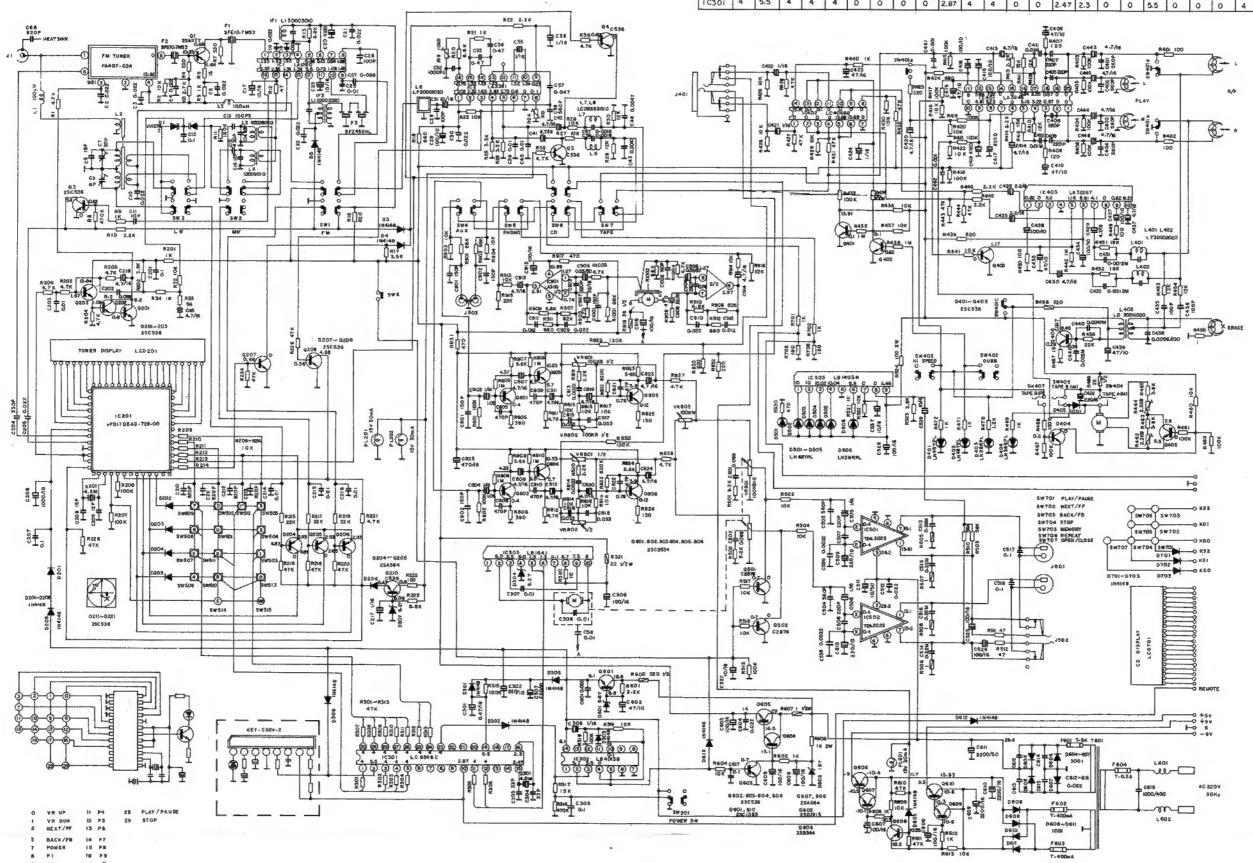


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Hauptplatine	Main P.C.B
Displayplatine/Schalterplatinen/Phono-Vorverstärker	Display P.C.B./Switch P.C.B.'s/Pre-amplifier Phono
Klangreglerplatine/Tunerplatine	Tone P.C.B./Tuner P.C.B
CD-Platine	CD P,C;B:
Abgleichanweisung Tuner	Alignment procedure tuner
Abgleichanweisung Cassette	Alignment procedure cassette
Abgleichanweisung CD-Player	Alignment procedure CD player
Fehlersuchdiagramm CD-Player	Trouble shooting flowchart CD player
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Final paris mande vestally ung Cohäuse	Exploded view housing
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Ersatzteilliste elektrische Teile (ohne CD)	Spare parts list electrical parts (without CD player)
Ersatzteilliste CD-Player (elektrisch u. mechanisch)	Spare parts list CD player (electrical and mechanical)
Ersatzteilliste Cassettenmechanik	Spare parts list cassette mechanism
Ersatzteilliste Plattenspieler	Spare parts list player
Bestellhinweise	Important for order
and the control of th	the state of the s
	Carlotte and the second of the
Verdrahtungsplan kpl. Gerät	Wiring diagram whole unit
Verdrahtungsplan CD-Plaver	Wiring diagram CD player
Blockdiagramm CD-Player	Block diagram CD player
Schaltbild Receiver	Circuit diagram Receiver
Schaltbild Recorder	Circuit diagram Recorder
Schaltbild CD-Player	Circuit diagram CD player
0.00	Main DOB
Hauptplatine	Main P.C.B
Tunerplatine/Klangreglerplatine	Tuner P.C.B./Tone P.C.B.
CD-Platine	CD P.C.B
	•
Abgleichanweisung Tuner	Alignment procedure tuner
Abgleichanweisung Cassette	Alignment procedure CD player
Fehlersuchdiagramm CD-Player	Trouble shooting flowchart CD player
IC- und Transistor-Blockschaltbilder für CD-Player	IC and transistor block diagram for CD player
Explosionsdarstellung Gehäuse	Exploded view housing
Explosionsdarstellung Cassettenmechanik	Exploded view cassette mechanism
Explosionsdarstellung Plattenspieler	Exploded view player
Explosionsdarstellung CD-Mechanik	Exploded view CD mechanism
Ersatzteilliste elektrische Teile (ohne CD)	Spare parts list electrical parts (without CD player)
Ersatzteilliste CD-Player (elektrisch u. mechanisch)	Spare parts list CD player (electrical and mechanical)
Ersatzteilliste Gehäuseteile	Spare parts list housing parts
Ersatzteilliste Cassettenmechanik	Spare parts list cassette mechanism
Ersatzteilliste Plattenspieler	Spare parts list player
Bestellhinweise	Important for order
Subwoofer	Subwoofer
Schaltbild	Circuit diagram
Netzschalterplatine/LED-Kette-Platine	Power switch P.C.B./LED power meter P.C.B
Verstärkerplatine	Amplifier P.C.B
Ersatzteilliste	Spare parts list



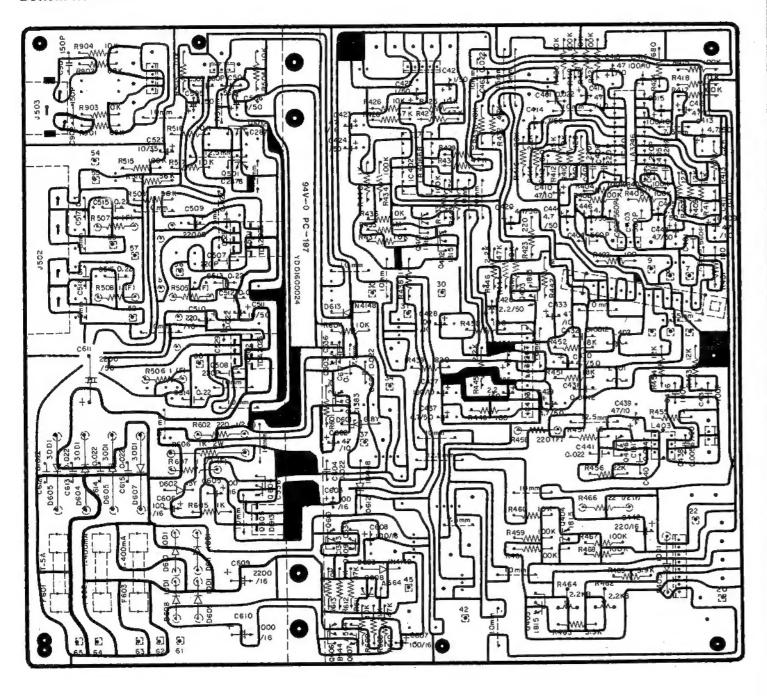




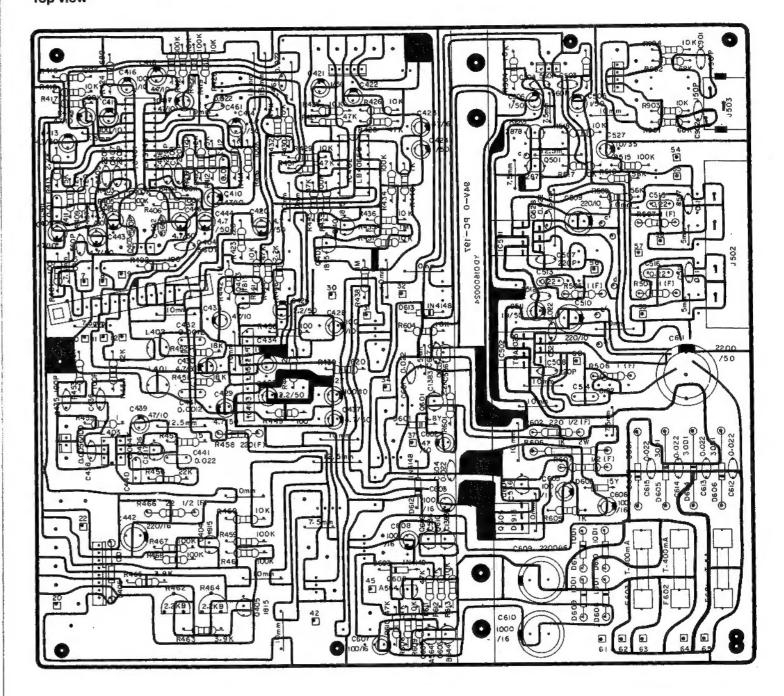
PIN NO.	E	С	В
Ø 1	11-64	0.68	10.93
0.2	0	3.11	0.62
Q 4	0	0	0.62
0201	0	8.2	0.6
Q202	0.6	8.2	1.09
0203	1.09	13.84	1.67
0207	0	0	0.68
0204	2.93	0	4.87
0205	2.93	0	4.87
0206	2.93	0	2.65
0208	О	4.99	0.36
Q210	5.47	13.8	6.08
Q401	0	13.91	0.1
Q402	0	0.1	0.62
Q403	0	1.17	0
Q4Q4	0	0	0.6
Q405	5.5	7.8	0
0406	0.29	9.45	-0.34
Q501	0	0	0.7
Q502	Q	0	0.7
0601	6.1	18.9	6-8
0603	0	0	6.7
Q604	14.5	29	15. 1
Q605	14	29	14.5
0606	- 9	-10.4	-10.5
0603	-10.5	-10-4	-10-1
0610	9.3	10.5	10.3
0601	0.4	4.37	1.03
0802	0.4	4.35	1.04
0803	5.7	10-53	6. 3
0804	5.7	10.53	6,3
Q805	0.15	3.9	0.78
_			

## Hauptplatine Queens 160 Main P.C.B. Queens 160

### Leiterbahnseite Bottom view



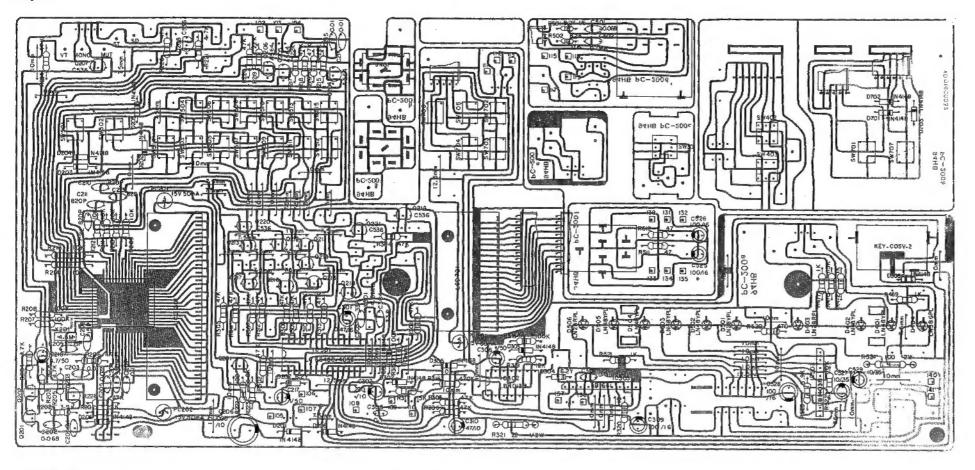
### Bestückungsseite Top view



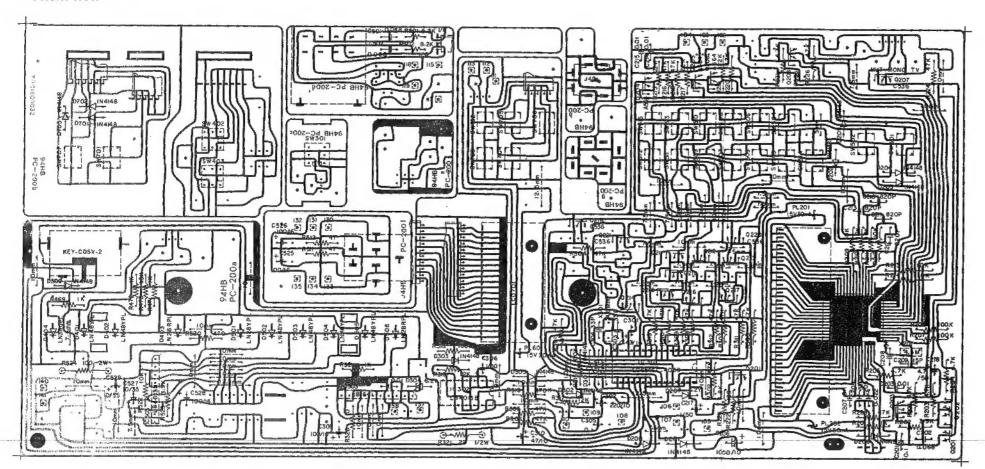
## Displayplatine/Schalterplatinen CD-Tape, Queens 160 Display P.C.B./Switch P.C.B.'s CD-Tape, Queens 160

Bestückungsseite

Top view

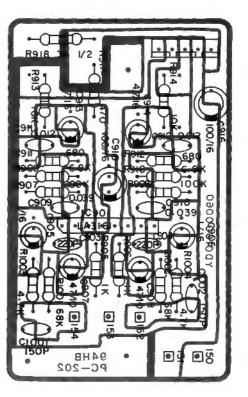


#### Leiterbahnseite Bottom view

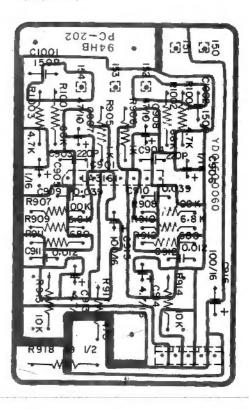


## Phono-Vorverstärkerplatine Pre-amplifier P.C.B. phono

### Bestückungsseite Top view



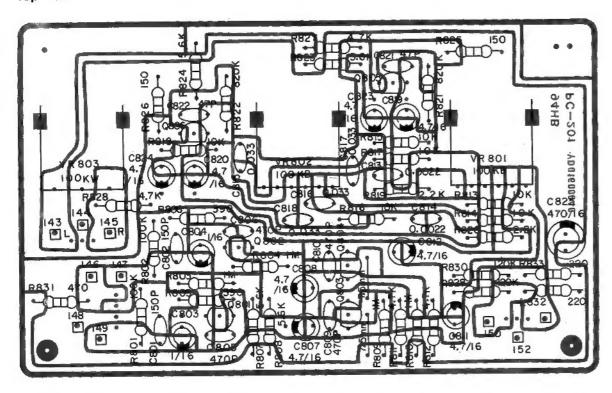
#### Leiterbahnseite Bottom view



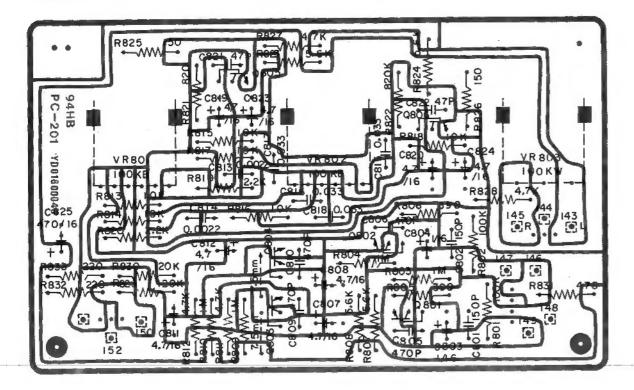
## Klangreglerplatine Queens 160 Tone P.C.B. Queens 160

## Bestückungsseite

Top view



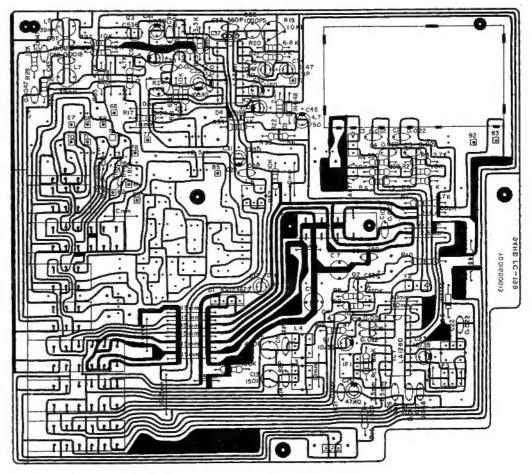
#### Leiterbahnseite **Bottom view**



### **Tunerplatine Queens 160** Tuner P.C.B. Queens 160

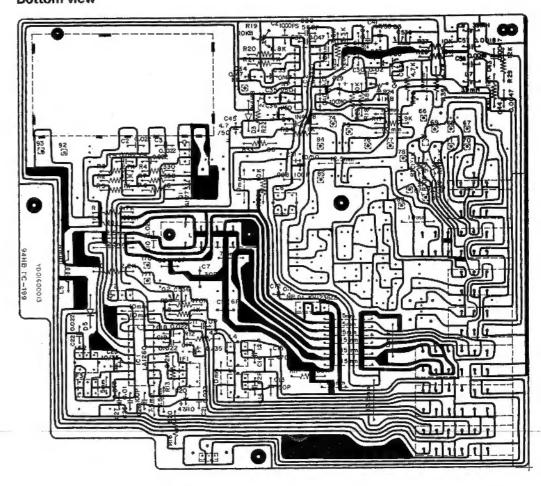
### Bestückungsseite

Top view



Leiterbahnseite

**Bottom view** 



## Ersatzteilliste elektrisch Queens 160 (ohne CD) Spare parts list electrical Queens 160 (without CD Player)

Bestelf-Nr./ Part. No.	Bezeichnung	Description	Position	Preisgruppe Price key
46 846 00 48 014 00 46 847 00 46 848 00 46 849 00 46 850 00	Tunerplatine Hauptplatine Displayplatine Klangreglerplatine Schalterplatine CD-Tape Phono-Vorverstärkerplatine	Tuner P.C.B. Main P.C.B. Display P.C.B. Tone P.C.B. Control P.C.B. CD-Tape Pre-amplifier phono		F3 E9 F8 D1 C5
26 797 00 26 476 00 46 829 00 31 481 00 32 286 00 32 997 00 40 037 00 40 799 00 21 596 00 21 330 00 32 998 00 46 830 00	IC LA 1260 IC LB 1403 N IC LB 1641 IC UPD 1708 A IC TDA 2025 IC LA 3161 IC LA 3226 T IC LA 3246 IC LA 3361 IC LC 4013 B IC TC 4066 BP IC LC 6546C - 4059	IC LA 1260 IC LB 1403 N IC LB 1641 IC UPD 1708 A IC TDA 2025 IC LA 3161 IC LA 3226 T IC LA 3246 IC LA 361 IC LA 4013 B IC TC 4066 BP IC LC 6546C - 4059	IC 1 IC 503 IC 303 IC 201 IC 501/502 IC 901 IC 403 IC 401 IC 2 IC 302 IC 402 IC 301	842227028BBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBB
45 988 00 37 957 00 13 545 00 86 012 00 33 713 00 24 533 00 44 764 00 84 691 00	Transistor 2 SC 564 Q Transistor 2 SA 1177 E Transistor 2 SC 536 NP-F Transistor 2 SC 1317 Transistor 2 SC 1333 Q Transistor 2 SC 2634 S Transistor 2 SD 1913 R Transistor 2 SC 2878	Transistor 2 SC 564 Q Transistor 2 SA 1177 E Transistor 2 SC 536 NP-F Transistor 2 SC 1317 Transistor 2 SC 1383 Q Transistor 2 SC 2634 S Transistor 2 SD 1913 R Transistor 2 SC 2878	Diverse Q 1 Diverse Q 406 Q 601/610 Q 801-806 Q 605 Q 501/502	A2 A3 A5 A7 A3 A1
11 241 00 40 288 00 12 039 00 26 552 00 21 413 00 11 350 00 11 745 00	Diode 1 N 4148 Diode KV 1236 Z 2 Diode 10 D 1 Sil. Diode 30 D-1 FC Zenerdiode GZA 15 Z Zenerdiode GZA 6,2 X od. Y Zenerdiode GZA 6,8 Y	Diode 1 N 4148 Diode KV 1236 Z 2 Diode 10 D 1 Sil. Diode 30 D-1 FC Zenerdiode GZA 15 Z Zenerdiode GZA 6.2 X or Y Zenerdiode GZA 6.8 Y	Diverse D 1 Diverse D 604-607 D 602 D 207/304 D 601	A2 B7 A4 A4 A2 A3 A3
29 597 00 32 768 00 37 414 00	Leuchtdiode SLR-34VR5 (rot) Leuchtdiode SLR-34 DU5 (orange) Leuchtdiode SEL 2310 S GN (grün)	LED SLR-34VR5 (red) LED SLR-34 DU5 (orange) LED SEL 2310 S GN (green)	D 403/506 D 401/402/501-505 D 404	A 4 A 4 A 2
12 110 00 16 831 00 37 882 00 34 320 00 15 992 00 24 372 00 34 322 00 40 293 00 34 324 00 40 291 00 34 325 00 15 991 00 34 326 00 31 482 00 16 839 00	Filter Keramik 10.7-B Ferritantenne LW/MW Spule 39mH Drossel 100 µH Keramik-Filter SFZ 455 Spule AM Spule AM Spule FM-ZF LB 0511 Spule Netzleitung Spule MW-Oszillator LB 0541 Spule LÖschoszillator Spule LW-Oszillator Fangspule Quarz 4,5 MHz Keramik-Oszillator CSA 4,00 MHz	Ceramic filter 10.7-B Bar antenna coil LW/MW Choke coil 39mH Choke coil 100 µH AM ceramic filter Filter coil AM IFT coil FM Det coil Air coil MW osc. coil Tape osc. coil LW osc. coil Trap coil X-tal 4.5 MHz Ceramic resonator CSA 4.00 MHz	F 1, 2 L 2 L 7, 8 L 1, 5 F 3 L 6 IF 2 IF 1 L 601/602 L 4 L 403 L 3 L 401/402 X 201 X 301	A 6 B 4 A 3 B 0 A 6 A 4 A 1 A 3 A 5 A 4 A 4 A 4 A 4 A 7
6 834 00 6 835 00 6 836 00	Drehwiderstand 100 K Balance Drehwiderstand 100 K Klang Motor-Drehwiderstand 100 K Volumen	Rotary VR 100 K Balance . Rotary VR 100 K Tone Rotary VR with motor 100 K Volume	VR 803 VR 801/802 VR 501	B1 B2 D0
37 022 00 37 444 00 37 443 00 8 576 00 8 576 00 8 558 00 92 972 00 94 335 00 91 823 00 96 168 00	Trimmpoti 1 K Trimmpoti 2,2 K Trimmpoti 2,2 K Trimmpoti 10 K Sicherungswiderstand 1 Ohm/¼ W Sicherungswiderstand 220 Ohm/¼ W Sicherungswiderstand 22 Ohm/½ W Sicherungswiderstand 39 Ohm/½ W Sicherungswiderstand 220 Ohm/½ W Sicherungswiderstand 1 Ohm/½ W	Semi-fixed resistor 1 K Semi-fixed resistor 2.2 K Semi-fixed resistor 10 K Fuse resistor 1 Ohm/½ W Fuse resistor 220 Ohm/½ W Fuse resistor 22 Ohm/½ W Fuse resistor 39 Ohm/½ W Fuse resistor 220 Ohm/½ W Fuse resistor 1 Ohm/½ W	R 24 R 462/464 R 19 R 505-508 R 458 R 321/466 R 918 R 602 R 607	A 4 A 3 A 2 A 4 A 3 A 1 A 7 A 2
4 086 00 4 377 00	Trimmer-Kond, VTC 51A 144A 6PF Trimmer-Kond, VTC 51F 133A 30PF	Trimmer capacitor 5 pF Trimmer capacitor 30 pF	C 9 C 7	A 4 A 3
6 837 00 6 838 00	Display Tuner LTP6M9011A Display CD LTP4R2011A	Display Tuner LTP6M9011A Display CD LTP4R2011A		C7 C6
0 306 00 6 840 00 6 841 00	Tuner FE 407/ET-A036 Lämpchen 15 V 30 mA IR-Empfänger Queens 160 Netztrafo	Tuner FE 407/ET-A036 Pilot lamp 15 V/30 mA IR receiver Queens 160 Power transformer		D6 A4 C2 D8
4 545 00 4 033 00 4 089 00 9 747 00 3 832 00	Tipptaste A/W-Schiebeschalter Netzschalter Tastenschalter Tastensatz 7fach Funktion	Tact switch Rec./Playback switch Power switch Push switch Function switch	Diverse S 401 a-d SW 301 SW 402/403 SW 1-8	A3 A8 B0 B1 C6
4 034 00 6 842 00 4 358 00 4 338 00	Mikrofonbuchse Buchse Kopfhörer Buchse Antenne Buchse Lautsprecher (Doppel)	Microphone jack Head phone jack Antenna jack Speaker DIN jack		B3 B0 A6

#### ALIGNMENT PROCEDURE

#### MODEL Q160

LW

#### GENERAL ALIGNMENT CONDITIONS

Signal input must be kept as low as possible to avoid overload and clipping.
 (Use highest possible sensitivity of output indicator.)

- 2. Signal input should be kept as low as possible to avoid A.G.C action. (Set output indicator to highest sensitvity.)
- 3. Marker insertion and amplitude should not distort the oscillator and amplitude should not distort the oscilloscope trace.
- 4. Standard modulation is 400 Hz 30% .

#### INSTRUMENT REQUIRED

Signal source

Output indicators

\* AC millivolt meter \*

\* AM signal generator \*

\* Radio sweep generator \*

\* Oscilloscope \*

\* Sweep oscilloscope \*

STEP	CONNECT SIGNAL SOURCE TO -	CONNECT OUTPUT INDICATOR -	SET SIGNAL OR INSERT MARKER	SET RADIO DIAL TO -	ADJUST	ADJUST FOR -
1	Set function se	lector switch on th	ne front panel t	to "LW" posi	tion.	
2	Sweep generator connected to a loop or short piece of wire placed near AM antenna	Sweep oscilloscope connected to wire pin of the C 43 or C 44 and bolume to maximun	See amplitude of 455 KHz	Quiet point on band near 515 KHz	IF 2	
				·		Amplitude of filter
3	Signal generator connected to	meter and	137 KHz	137 KHz	LW OSC L 3	
4	a loop	oscilloscope connected across speaker	290 KHz	290 KHz		
5			170 KHz	170 KHz	LW BAR ANT COIL	maximum
6		·	270 KHz	270 KHz	RF Trimmer C 7	
7	Repeat step 3 th	rough 6 as necessar	ry to obtain max	kimum sensitiv	ity on stati	on.

(8)

#### ALIGNMENT PROCEDURE

#### MODEL Q160

#### GENERAL ALIGNMENT CONDITIONS

MW

- 1. Signal input must be kept as low as possible to avoid overload and clipping.
  (Use highest possible sensitivity of output indicator.)
- 2. Signal input should be kept as low as possible to avoid A.G.C. action. (Set output indicator to highest sensitivity.)
- 3. Maker insertion and amplitude should not distort the oscillator and amplitude should not distort the oscilloscope trace.
- 4. Standard modulation is 400 Hz.

#### INSTRUMENTS REQUIRED

Signal source

Output indicators

\* AM signal generator \*

\* AC millivolt meter \*

\* Radio sweep generator \*

\* Oscilloscope \*

\* Sweep oscilloscope \*

STEP	CONNECT SIGNAL SOURCE TO -	CONNECT OUTPUT INDICATOR -	SET SIGNAL OR INSERT MARKER	SET RADIO DIAL TO -	ADJUST	ADJUST FOR -
1	Set function se	elector switch on t	he front panel	to " MW " posi	tion.	
2	connected to a loop or short piece of wire	Sweep oscilloscope connected to wire pin of the C 43 of C 44 and volume to mzximum		Quiet point on band near 513 KHz	F 2	
						Ampltude of filter
3	Signal generat- or connected to	meter and	513 KHz	513 KHz	AM OSC L 4	
4	a loop	oscilloscope connected across spraker	1620 KHz	1620 KHz		
5			600 KHz	600 KHz	AM BAR ANT COIL	maximum
6			1400 KHz	1400 KHz	RF Trimmer C - 9	
7	Repeat step 3	through 6 necessary	to obtain maxi	mum sensitivit	v on station	

#### ALIGNMENT PROCEDURE

#### MODEL Q160

\_\_\_\_3\_\_\_\_FM

#### GENERAL ALIGNMENT CONDITION

- 1. Signal input must be kept as low as possible to avoid ocerload clipping.
  (Use highest possitivity of output indicator.)
- 2. Makers must be accurate (crystal controlled or calibrated). The 10.7 MHz marker used in each section of the FM alignment must be the same.
- 3. Signal input should be kept as low as possible to avoid A.G.C. action. (Set output indicator to highest sensitivity.)
- 4. FM signal generator RF output frequency must be monitoring.
- 5. Standard modulation is 1 KHz ( 40 KHz)

#### INSTRUMENTS REQUIRED

#### Signal sources

- \* FM signal generator \*
- \* Radio sweep generator \*
- \* Sweep oscilloscope \*
- \* Frequency counter \*

#### Output indicators

- \* AC millivolt meter \*
- \* Oscilloscope \*
- \* 114 KHz signal generator \*

STEP	CONNECT SIGNAL SOURCE TO -	CONNECT OUTPUT INDICATOR TO -	SET SIGNAL OR INSERT MARKER	SET RADIO DIAL TO	ADJUST	ADJUST FOR -
1	Set function se	lector switch on	the front panel	to "FM "pos	sition.	
2	Radio sweep generator connect to FM front ent tuner pin 3	Oscilloscope connected to wire pin of the C 43 of C 44 and volume VR to maximum	10.6 10.7 10.8 MHz marker	Quiet scale pointer on band	IF 1	Straightness and symmetry of "S" curve with 10.7 MHz makerd at zero crossover

9

#### ALIGNMENT PROCEDURE

#### MODEL Q160

MPX

#### GENERAL ALIGNMENT CONDITION

1. Adjust FM signal generator output to 1mV (60dB) with MPX modulation 1 KHz

Deviation = 33.75 KHz

Pilot = 6 KHz

#### INSTRUMENTS REQUIRED

Signal source

Output indicator

\* FM signal generator \*

\* Frequency counter \*

\* Stereo signal generator \*

\* AC millivolt meter \*

\* Oscilloscope \*

STEP		CONNECT OUTPUT  INDICATOR TO -	SET SIGNAL	SET RADIO DIAL	ADJUST	ADJUST FOR -	
1	1 Set function selector switch on the front panel to "FM STEREO" Position.						
2	generator	Frequency counter connect to MPX test point	98 MHz and modulation off, pilot signal off too	98 MHz	R - 19	19.00 KHz + / - 50 Hz	

## Abgleichanweisung Cassette Queens 160 Alignment procedure cassette Queens 160

TAPE POSITION TEST TAPE MEASURING INSTRUMENT Meßgerät	TESTPOINT Meßpunkt	ADJUSTMENT LOCATION Abgleichpunkt	MEASURING SIGNAL Meßsignal
---	-----------------------	---	----------------------------------

#### 1. Head azimuth/A/W-Kopf-Einstellung

PLAYBACK	MTT-114 N 10 kHz	V.T.V.M AC-Millivoltmeter	OUT L CH OUT R CH	AZIMUTH SCREW	NF-max.

#### 2. Tape speed/Geschwindigkeit

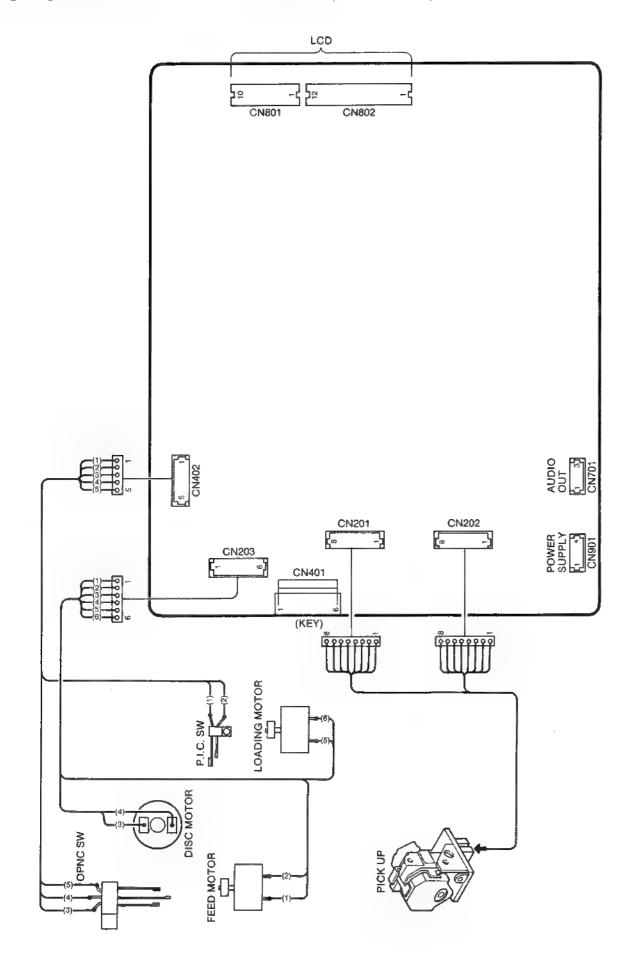
PLAYBACK LOW	MTT- 111 N 3000 Hz	FREQUENCY COUNTER	OUT L/R CH	R 464	3000 Hz
PLAYBACK HIGH	MTT-111 N 3000 Hz	Frequenz- zähler	OUT L/R CH	R 462	4800 Hz

#### 3. Oscillator coil frequency/Oszillatorfrequenz

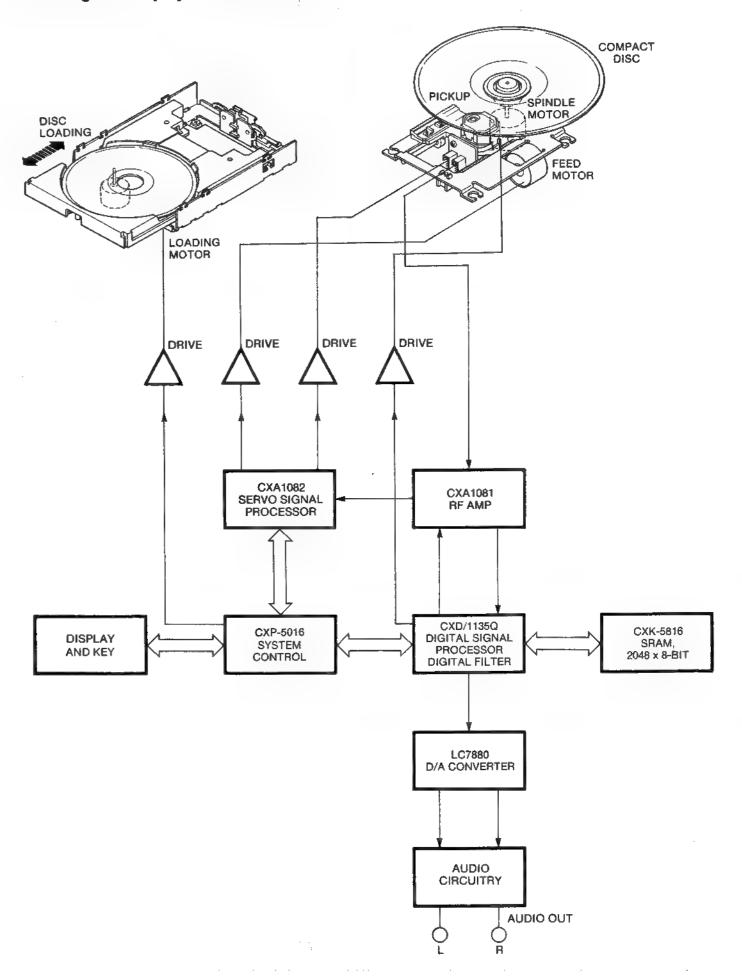
RECORD AC-212 FREQUENCY COUNTER Frequenzzähler	ERASE HEAD Löschkopf	L 403	85 kHz +/-5 kHz
--	-------------------------	-------	--------------------

Löschspannung: ca. 100 Vss Vormagnetisierung: ca. 34 Vss

## Verdrahtungsplan CD-Player Queens 160/ Wiring diagram CD player Queens 160/Queens 2

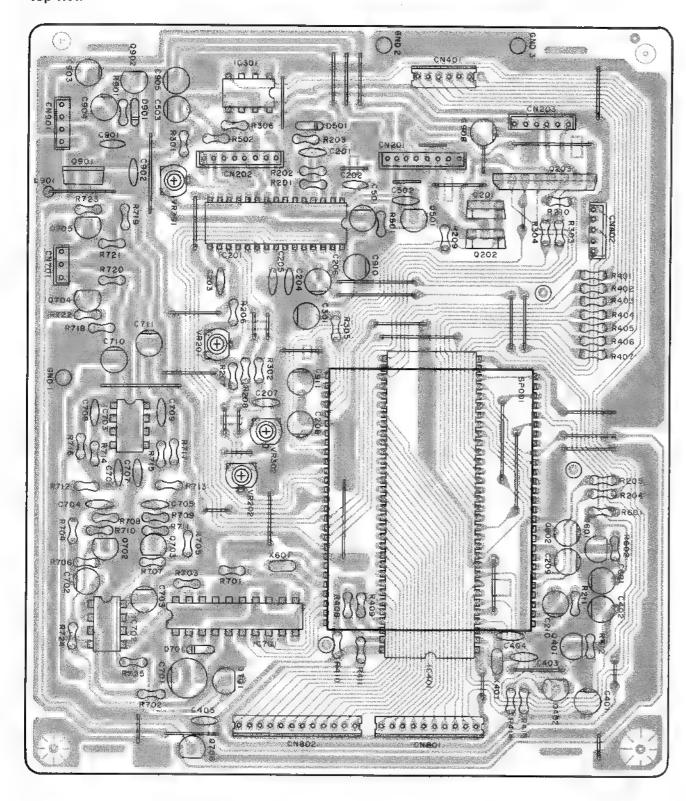


## Blockdiagramm CD-Player Queens 160/ Block diagram CD player Queens 160/

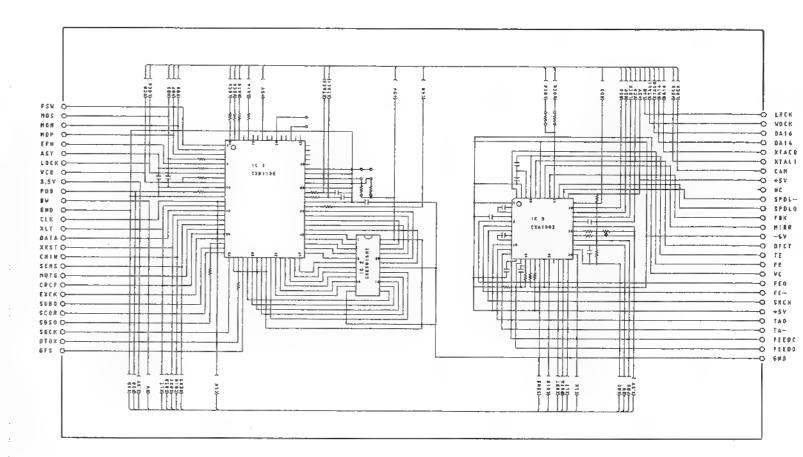


## CD-Platine CD P.C.B.

#### Bestückungsseite Top view

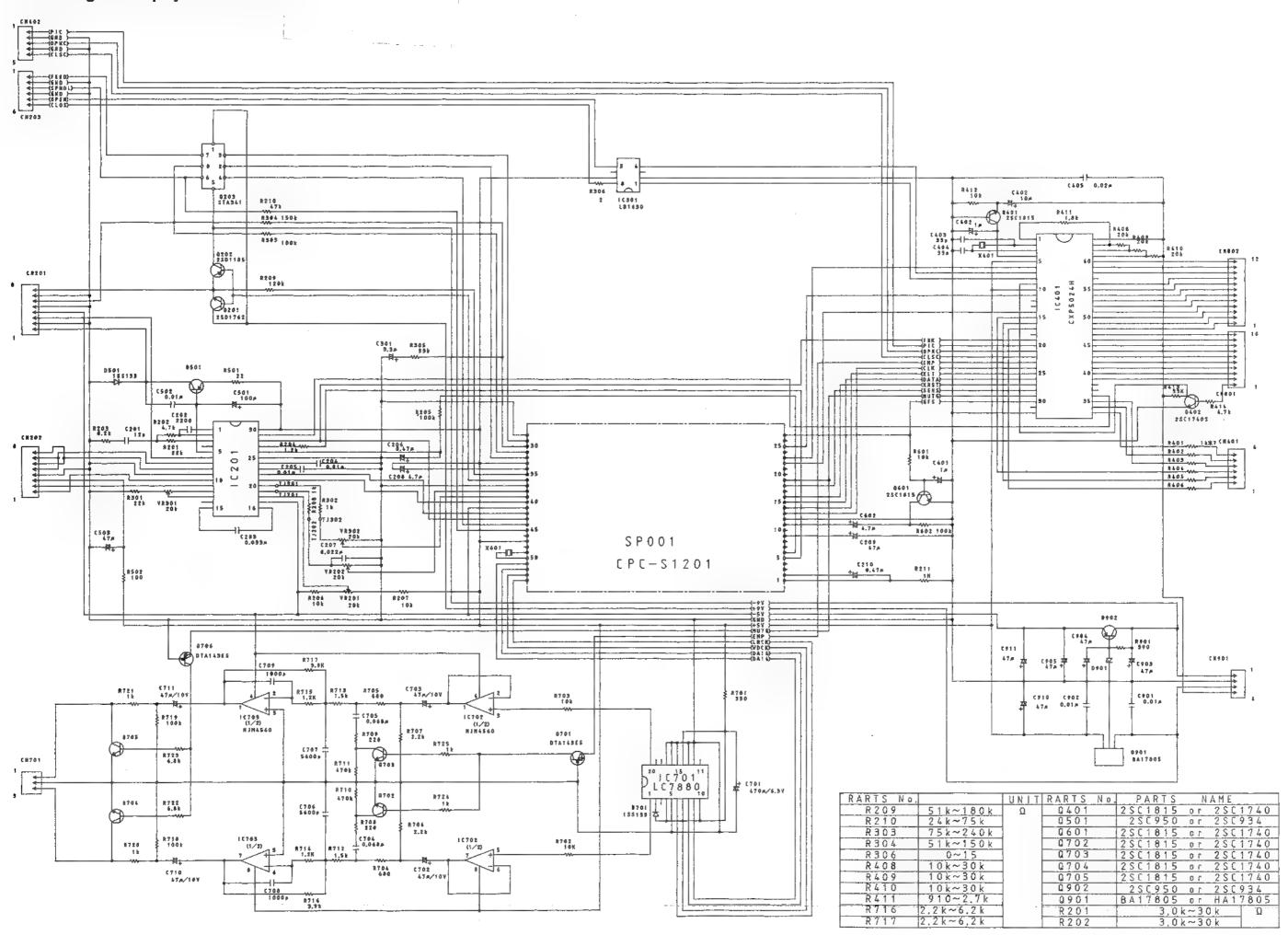


## Schaltbild IC-Zusatzplatine SP001 CPC-S2101 zu CD-Player Circuit diagram Sub P.C.B. SP001 CPC-S2101 for CD player

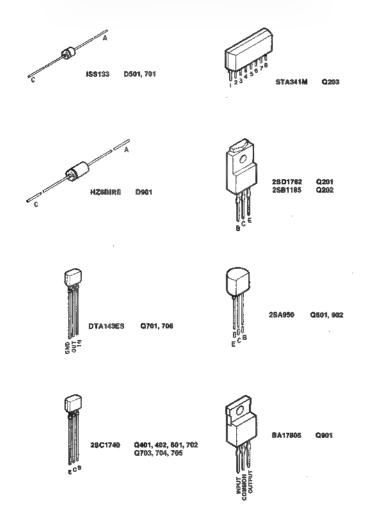




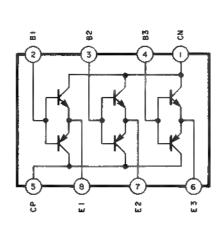
### Schaltbild CD-Player Queens 160/ Circuit diagram CD player Queens 160/

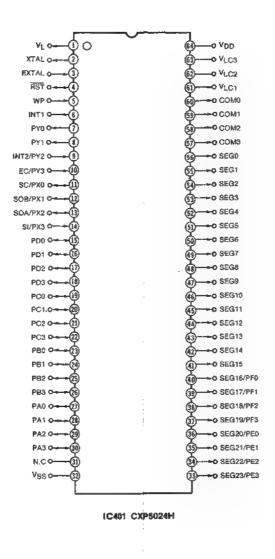


## IC- und Transistor-Blockschaltbilder für CD-Player IC and transistor block diagrams for CD player



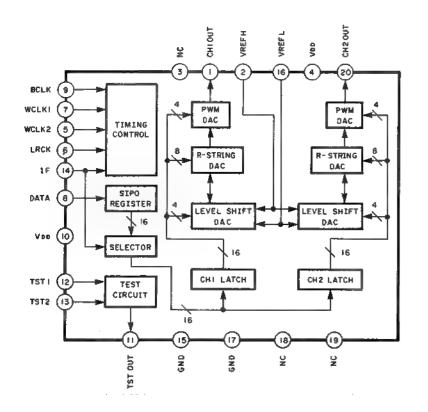
Q203 STA341M

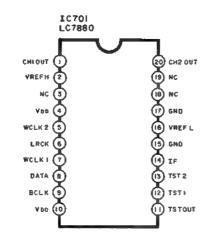




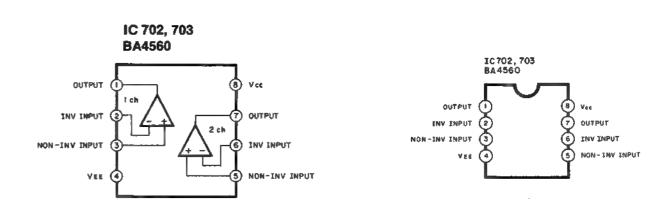
(Enables to specify (Mask option in combination (Enables to specify the I/O with port unit) the I/O with bit unit) with segment output) Port E Port B Port C Port D Port F Program counter Register ALU (12)Accumulator Flag 224 X 4 bit Date memory Program Timer (8) memory Timer/counter (8) 4096 x B bit Serial I/O (8) Stack Interruption contro Command control LCD Time base timer (18) controller driver V<sub>L</sub>C1 -EXTAL VLC2 -Clock control Port X Port Y V<sub>L</sub>C<sub>3</sub> -XTAL SEG16 SEG0 COM0 PX3/ PX1/ PY3/ V<sub>DD</sub> RST EC SOB INT1 VSS SEG23 SEG15 COM3 PX2/ PX0/ PY2/ PY0 SOA SC INT2 (Combined use with port E and port F) (Combined use with serial I/O)

IC 701 LC7880

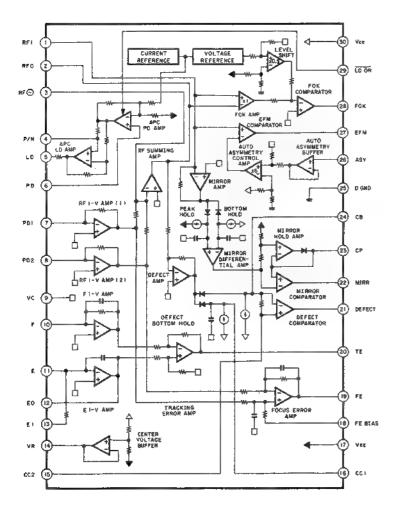


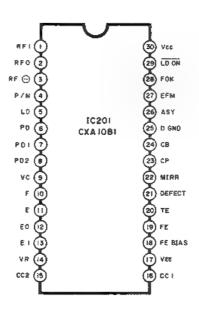


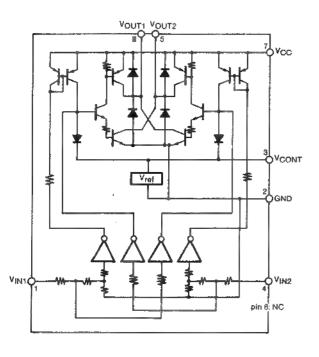
IC401 CXP5024H

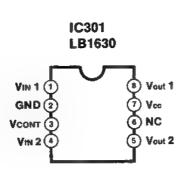


#### IC 201 CXA1081









IC301 LB1630

## IC- und Transistor-Spannungstabellen für CD-Player IC and transistor voltage charts for CD player

Pin No.		C	В
DC			
Q201	0.0	9.0	0.6
Q202	0.0	-9.0	0.8
Q401	0.0	5.4	0.0
Q501	5.0	1.3	4.7
Q601	0.0	0.0	0.0
0702	0.0	0.0	-0.4
Q703	0.0	0.0	-0.4
9704	0.0	0.0	0.7
Q705	0.0	0.0	0.7
0902	-5.0	-9.0	-5.7

Pin No. DC	IN	GND	OUT
0701	0.0	-0.3	0.0
Q706	4.4	4.4	0.0
Q901	9.0	0.0	5.0

Q 2 0	3							
Pin No.	1	2	3	4	5	6	7	8
DC	9.0	0.2	0.0	-0.5	-9.0	0.0	0.0	0.0

_I C 2 0	1														
Pin No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
DC	0.0	0.0	0.0	4.3	4.4	-5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.1	-1.1
Pin No.	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
DC .	1.1	-5.0	0.1	0.1	0.0	-4.3	0.0	-3.3	0.0	_ 0.0	2.5	2.4	0.3	5.0	5.0

IC30	1								
Pin No.	1	2	3	4	5	6	7	8	
DC	0.0	0.0	0.0	4.3	4.4	-5.0	0.0	0.0	

I C 4 0	1														
Pin No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
DC	0.0	2.2	2.3	5.4	5.0	0.0	4.2	4.2	5.0	5.0	0.5	0.5	0.5	0.0	5.0
Pin No.	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
DC	5.0	5.0	5.0	0.3	5.0	5.0	0.0	0.0	5.0	5.0	0.0	5.0	0.1	4.4	0.0
Pin No.	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
DC	0.0	0.0	5.0	5.0	5.0	5.0	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
Pin No.	46	47	48	49	50	51	52	. 53	54	55	56	57	58	59	60
DC	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
Pin No.	61	62	63	64							, and the second				
DC	3.4	1.8	0.2	5.0											

1 C 7 0	1														
Pin No.	ì	2	3	4	5	6	7	8	9	10	11	12	13	14	15
DC	1.9	3.8	0.0	4.4	0.0	2.5	2.5	0.0	2.4	4.4	0.4	0.0	0.0	4.4	0.0
Pin No.	16	17	18	19	20								•		
ስሮ	0.0	0.0	0.0	0.0	1 0										

1070	2							
Pin No.	1	2	3	4	5	6	7	8
DC	1 9	1 9	1 9	-5.0	1 9	1 9	1 9	5.0

1070	3							
Pin No.	1	2	3	4	5	6	7	1
ĐC	0.0	0.0	0.0	-5.0	0.0	0.0	0.0	5.0

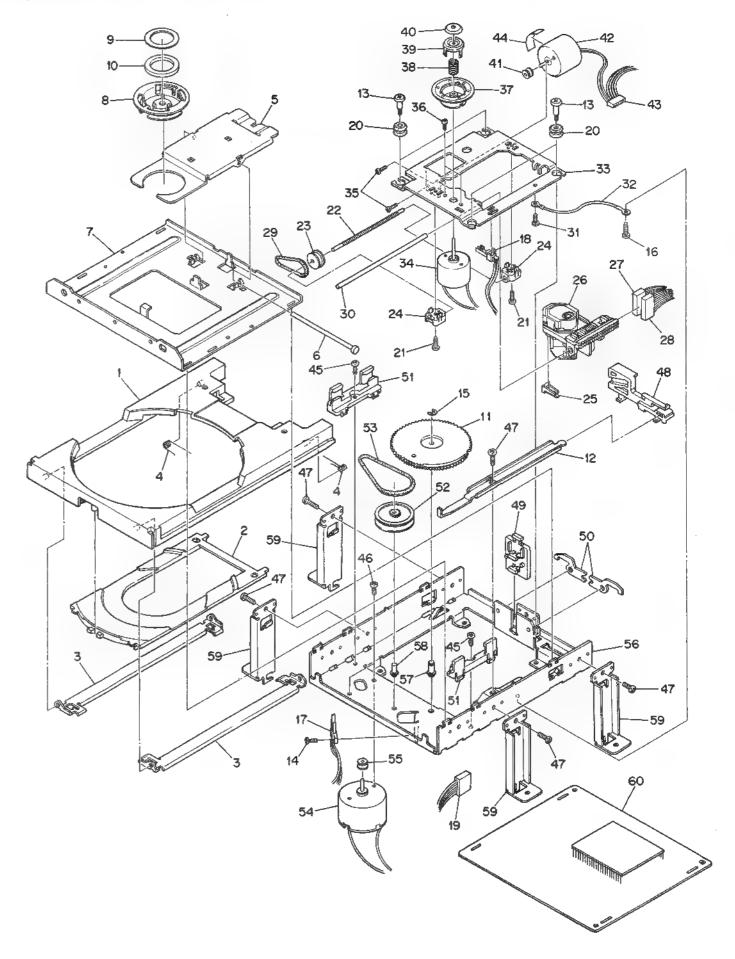
SPOO	1														
Pin No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
DC	0.0	0.0	0.0	0.0	2.4	2.5	0.0	3.5	3.5	2.7	2.7	0.0	5.0	5.0	0.0
Pin No.	16	17	18	19	20	21	22	23	24	25	26	. 27	28	29	30
DC	5.0	5.0	0.1	4.4	0.0	0.4	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0
Pin No.	31	32	33	34	35	36	37	38	39	40	41 -	42	43	44	45
DC !	0.0	0.3	5.0	0.5	0.0	0.6	0.0	0.1	0.0	-4.3	-5.0	0.0	0.3	-0.5	0.0
Pin No.	46	47	48	49	50	51	52	53	54						
DC	5.0	5.0	0.0	2.4	2.5	2.4	0.0	2.5	2.5						

## Ersatzteilliste CD-Player Spare parts list CD player

Bestell-Nr./ Part. No.	Bezeichnung	Description	Position	Preisgrupp Price key
Elektrische	Teile/Electrical parts			
46 819 00	CD-Spieler kpl.	CD player assembly	A 22	G2
40 013 00	OD-Opisies rips.	OD player absorribly	NEE	
46 876 00 46 877 00	CD-Platine IC-Zusatzplatine J019	CD P.C.B. IC P.C.B. J019	CM 60 J019	F 9 E 5
6 747 00	IC CXA 1081 S RF Amplifier	IC CXA 1081 S RF Amplifier	IC 201	B 4
16 748 00	IC LB 1630 Motor Driver	IC LB 1630 motor driver	IC 301	83
16 878 00	IC CXP 5024 H-076S	IC CXP 5024H-076S	IC 401	D 5
6 501 00	IC LC 7880 = LC 7881	IC LC 7880 = LC 7881	IC 701	B 9
10 765 00	IC BA 4560 o. UPC 4560	IC BA 4560 o. UPC 4560	IC 702/703	A 6
10 767 90	Transistor 2 SD 1762 E	Transistor 2 SD 1762 E	Q 201	A7
10 766 DO	Transistor 2 SB 1185 E	Transistor 2 SB 1185 E	Q 202	A 8
40 768 00	Transistor STA 341 M	Transistor STA 341 M	Q 203	B4
34 692 00	Transistor 2 SC 1740	Transistor 2 SC 1740	Diverse	A 2
46 752 00	Transistor 2 SA 950 Y	Transistor 2 SA 950 Y	Q 501/902	A 5
40 368 00	Transistor DTA 143 XS	Transistor DTA 143 XS	Q 701/706	A 2
46 751 00	Transistor HA 17805	Transistor HA 17805	Q 901	A 8
24.750.00	Diode 1 SS 133	Diode 1 SS 133	D 501/701	A 2
24 750 00 46 879 00	Zenerdiode HZ 6B1 RE	Zenerdiode HZ 6B1 RE	D 901	A3
29 622 00	Trimmpoti 20 kOhm	Semi-fixed resistor 20 kOhm	Diverse	A 3
	minimpou zo komin	Gerii-lixed resistor 20 Norilli	Divolac	70
10 022 00				
10 769 00	Quarz XTP0334-16934K015 16,9344 M Keramik-Oszillator CSA 4,00 MHz	Hz Crystal XTP0334-16934K015 16.93 Ceramic resonator CSA 4.00 MHz	44 MHz X 601 X 401	B2 A7
40 769 00 46 839 00				
40 769 00 46 839 00 <b>Mechanisci</b>	Keramik-Osziilator CSA 4,00 MHz  Teile/Mechanical parts	Ceramic resonator CSA 4.00 MHz	X 401	A7
40 769 00 46 839 00 <b>Mechanisci</b> 46 755 00	Neramik-Oszillator CSA 4,00 MHz  Teile/Mechanical parts  Schlitten CD-Platte	Ceramic resonator CSA 4.00 MHz Tray	X 401 DM 1	A 7 B 4
40 769 00 46 839 00 <b>Mechanisci</b> 46 755 00 46 756 00	Neramik-Oszillator CSA 4,00 MHz  Teile/Mechanical parts  Schlitten CD-Platte Auflagebügel CD-Platte	Ceramic resonator CSA 4.00 MHz  Tray Lifter	X 401 DM 1 DM 2	A 7 B 4 B 0
40 769 00 46 839 00 <b>Mechanisci</b> 46 755 00 46 756 00 46 869 00	Keramik-Oszillator CSA 4,00 MHz  Teile/Mechanical parts  Schlitten CD-Platte Auflagebügel CD-Platte Feder Auflagebügel	Ceramic resonator CSA 4.00 MHz  Tray Lifter Spring lifter	X 401 DM 1 DM 2 DM 4	A 7 B 4 B 0 A 2
40 769 00 46 839 00 <b>Mechanisci</b> 46 755 00 46 756 00 46 869 00 46 757 00	Keramik-Oszillator CSA 4,00 MHz  Teile/Mechanical parts  Schlitten CD-Platte Auflagebügel CD-Platte Feder Auflagebügel Zentrierscheibe oben	Ceramic resonator CSA 4.00 MHz  Tray Lifter Spring lifter Disk cramper	X 401  DM 1  DM 2  DM 4  DM 8	A 7 B 4 B 0 A 2 A 3
40 769 00 46 839 00 <b>Mechanisci</b> 46 755 00 46 756 00 46 869 00 46 757 00 46 758 00	Keramik-Osziilator CSA 4,00 MHz  Teile/Mechanical parts  Schlitten CD-Platte Auflagebügel CD-Platte Feder Auflagebügel Zentrierscheibe oben Kurvenzahnrad Lademechanik	Ceramic resonator CSA 4.00 MHz  Tray Lifter Spring lifter Disk cramper Drive gear	X 401  DM 1  DM 2  DM 4  DM 8  DM 11	A 7  B 4  B 0  A 2  A 3  A 9
40 769 00 46 839 00 <b>Mechanisci</b> 46 755 00 46 756 00 46 869 00 46 757 00 46 758 00 34 315 00	Keramik-Oszillator CSA 4,00 MHz  Teile/Mechanical parts  Schlitten CD-Platte Auflagebügel CD-Platte Feder Auflagebügel Zentrierscheibe oben Kurvenzahnrad Lademechanik Sicherungsring für Kurvenzahnrad	Ceramic resonator CSA 4.00 MHz  Tray Lifter Spring lifter Disk cramper Drive gear E-Ring spring	X 401  DM 1  DM 2  DM 4  DM 8  DM 11  DM 15	A 7  B 4  B 0  A 2  A 3  A 9  A 0
40 769 00 46 839 00 <b>Mechanisci</b> 46 755 00 46 756 00 46 869 00 46 757 00 46 758 00 34 315 00 46 759 00	Keramik-Oszillator CSA 4,00 MHz  Teile/Mechanical parts  Schlitten CD-Platte Auflagebügel CD-Platte Feder Auflagebügel Zentrierscheibe oben Kurvenzahnrad Lademechanik Sicherungsring für Kurvenzahnrad Schaltkontakt	Tray Lifter Spring lifter Disk cramper Drive gear E-Ring spring LSC-1223-31 Leaf SW	X 401  DM 1  DM 2  DM 4  DM 8  DM 11  DM 15  DM 17	A 7 B 4 B 0 A 2 A 3 A 9 A 9
40 769 00 46 839 00 <b>Mechanisci</b> 46 755 00 46 756 00 46 869 00 46 757 00 46 758 00 34 315 00 46 759 00 44 132 00	Reramik-Oszillator CSA 4,00 MHz  Teile/Mechanical parts  Schlitten CD-Platte Auflagebügel CD-Platte Feder Auflagebügel Zentrierscheibe oben Kurvenzahnrad Lademechanik Sicherungsring für Kurvenzahnrad Schaltkontakt Mikroschalter MSW L 541 T	Tray Lifter Spring lifter Disk cramper Drive gear E-Ring spring LSC-1223-31 Leaf SW Leaf switch MSW L 541 T	X 401  DM 1  DM 2  DM 4  DM 8  DM 11  DM 15  DM 17  DM 18	A 7 B 4 B 0 A 2 A 3 A 9 A 0 A 9 A 4
40 769 00 46 839 00 <b>Mechanisci</b> 46 755 00 46 756 00 46 869 00 46 757 00 46 758 00 34 315 00 46 759 00 44 132 00 46 870 00	Keramik-Oszillator CSA 4,00 MHz  Teile/Mechanical parts  Schlitten CD-Platte Auflagebügel CD-Platte Feder Auflagebügel Zentrierscheibe oben Kurvenzahnrad Lademechanik Sicherungsring für Kurvenzahnrad Schaltkontakt Mikroschalter MSW L 541 T Gewindestange Laserschlitten	Tray Lifter Spring lifter Disk cramper Drive gear E-Ring spring LSC-1223-31 Leaf SW Leaf switch MSW L 541 T Lead screw laser	X 401  DM 1  DM 2  DM 4  DM 8  DM 11  DM 15  DM 17  DM 18  DM 22	A 7  B 4  B 0  A 2  A 3  A 9  A 0  A 9  A 4  B 1
40 769 00 46 839 00 <b>Mechanisci</b> 46 755 00 46 756 00 46 869 00 46 757 00 46 758 00 34 315 00 46 759 00 44 132 00 46 870 00 44 121 00	Keramik-Oszillator CSA 4,00 MHz  Teile/Mechanical parts  Schlitten CD-Platte Auflagebügel CD-Platte Feder Auflagebügel Zentrierscheibe oben Kurvenzahnrad Lademechanik Sicherungsring für Kurvenzahnrad Schaltkontakt Mikroschalter MSW L 541 T Gewindestange Laserschlitten Pulley Gewindestange	Tray Lifter Spring lifter Disk cramper Drive gear E-Ring spring LSG-1223-31 Leaf SW Leaf switch MSW L 541 T Lead screw laser Pulley feed	X 401  DM 1  DM 2  DM 4  DM 8  DM 11  DM 15  DM 17  DM 18  DM 22  DM 23	A 7 B 4 B 0 A 2 A 3 A 9 A 0 A 9 A 1 A 2
40 769 00 46 839 00 <b>Mechanisci</b> 46 755 00 46 756 00 46 869 00 46 757 00 46 758 00 34 315 00 46 759 00 44 132 00 46 870 00 44 121 00 46 871 00	Keramik-Oszillator CSA 4,00 MHz  Teile/Mechanical parts  Schlitten CD-Platte Auflagebügel CD-Platte Feder Auflagebügel Zentrierscheibe oben Kurvenzahnrad Lademechanik Sicherungsring für Kurvenzahnrad Schaltkontakt Mikroschalter MSW L 541 T Gewindestange Laserschlitten Pulley Gewindestange Führungsrolle Gewindestange	Tray Lifter Spring lifter Disk cramper Drive gear E-Ring spring LSG-1223-31 Leaf SW Leaf switch MSW L 541 T Lead screw laser Pulley feed S-rack lead screw	X 401  DM 1  DM 2  DM 4  DM 8  DM 11  DM 15  DM 17  DM 17  DM 18  DM 22  DM 23  DM 25	A 7  B 4  B 0  A 2  A 3  A 9  A 0  A 9  A 4  B 1  A 2  A 3
40 769 00 46 839 00 <b>Mechanisci</b> 46 755 00 46 756 00 46 869 00 46 757 00 46 758 00 34 315 00 46 759 00 44 132 00 46 870 00 44 121 00 46 871 00 46 760 00	Keramik-Oszillator CSA 4,00 MHz  Teile/Mechanical parts  Schlitten CD-Platte Auflagebügel CD-Platte Feder Auflagebügel Zentrierscheibe oben Kurvenzahnrad Lademechanik Sicherungsring für Kurvenzahnrad Schaltkontakt Mikroschalter MSW L 541 T Gewindestange Laserschlitten Pulley Gewindestange Führungsrolle Gewindestange Laserabtaster kpl.	Tray Lifter Spring lifter Disk cramper Drive gear E-Ring spring LSG-1223-31 Leaf SW Leaf switch MSW L 541 T Lead screw laser Pulley feed S-rack lead screw Laser pick up	X 401  DM 1  DM 2  DM 4  DM 8  DM 11  DM 15  DM 17  DM 18  DM 22  DM 23  DM 25  DM 26	A 7 B 4 B 0 A 2 A 3 A 9 A 4 B 1 A 2 A 1
40 769 00 46 839 00 <b>Mechanisci</b> 46 755 00 46 756 00 46 869 00 46 757 00 46 758 00 34 315 00 46 759 00 44 132 00 46 871 00 46 871 00 46 760 00 44 116 00	Keramik-Oszillator CSA 4,00 MHz  Teile/Mechanical parts  Schlitten CD-Platte Auflagebügel CD-Platte Feder Auflagebügel Zentrierscheibe oben Kurvenzahnrad Lademechanik Sicherungsring für Kurvenzahnrad Schaltkontakt Mikroschalter MSW L 541 T Gewindestange Laserschlitten Pulley Gewindestange Führungsrolle Gewindestange Laserabtaster kpl. Riemen Lasermotor	Tray Lifter Spring lifter Disk cramper Drive gear E-Ring spring LSC-1223-31 Leaf SW Leaf switch MSW L 541 T Lead screw laser Pulley feed S-rack lead screw Laser pick up Belt laser motor	X 401  DM 1  DM 2  DM 4  DM 8  DM 11  DM 15  DM 17  DM 18  DM 22  DM 23  DM 23  DM 25  DM 26  DM 29	A 7 B 4 B 0 A 2 A 3 A 9 A 4 B 1 A 2 A 3 F A 3
40 769 00 46 839 00 <b>Mechanisci</b> 46 755 00 46 756 00 46 869 00 46 757 00 46 758 00 34 315 00 46 759 00 44 132 00 46 870 00 44 121 00 46 871 00 46 760 00 44 116 00 44 116 00	Keramik-Oszillator CSA 4,00 MHz  Teile/Mechanical parts  Schlitten CD-Platte Auflagebügel CD-Platte Feder Auflagebügel Zentrierscheibe oben Kurvenzahnrad Lademechanik Sicherungsring für Kurvenzahnrad Schaltkontakt Mikroschalter MSW L 541 T Gewindestange Laserschlitten Pulley Gewindestange Führungsrolle Gewindestange Laserabtaster kpl. Riemen Lasermotor Gleitstange	Tray Lifter Spring lifter Disk cramper Drive gear E-Ring spring LSG-1223-31 Leaf SW Leaf switch MSW L 541 T Lead screw laser Pulley feed S-rack lead screw Laser pick up Belt laser motor Guide shaft	X 401  DM 1  DM 2  DM 4  DM 8  DM 11  DM 15  DM 17  DM 18  DM 22  DM 23  DM 25  DM 25  DM 29  DM 30	A 7 B 4 B 0 A 2 A 3 A 9 A 4 B 1 A 2 A 3 F 1 A 4
40 769 00 46 839 00 <b>Mechanisci</b> 46 755 00 46 756 00 46 757 00 46 758 00 34 315 00 46 759 00 44 132 00 46 870 00 44 121 00 48 871 00 46 760 00 44 116 00 44 124 00 46 761 00	Reramik-Oszillator CSA 4,00 MHz  Teile/Mechanical parts  Schlitten CD-Platte Auflagebügel CD-Platte Feder Auflagebügel Zentrierscheibe oben Kurvenzahnrad Lademechanik Sicherungsring für Kurvenzahnrad Schaltkontakt Mikroschalter MSW L 541 T Gewindestange Laserschlitten Pulley Gewindestange Führungsrolle Gewindestange Laserabtaster kpl. Riemen Lasermotor Gleitstange Motor Antrieb CD-Platte	Tray Lifter Spring lifter Disk cramper Drive gear E-Ring spring LSC-1223-31 Leaf SW Leaf switch MSW L 541 T Lead screw laser Pulley feed S-rack lead screw Laser pick up Belt laser motor Guide shaft Disk motor	X 401  DM 1  DM 2  DM 4  DM 8  DM 11  DM 15  DM 17  DM 18  DM 22  DM 23  DM 25  DM 26  DM 29  DM 30  DM 34	A7 B4 B0 A23 A90 A44 B1 A23 F1 A44 C0
40 769 00 46 839 00 <b>Mechanisci</b> 46 755 00 46 756 00 46 756 00 46 757 00 46 758 00 34 315 00 44 132 00 44 132 00 44 121 00 46 870 00 44 121 00 46 871 00 46 760 00 44 124 00 46 761 00 46 762 00	Keramik-Oszillator CSA 4,00 MHz  Teile/Mechanical parts  Schlitten CD-Platte Auflagebügel CD-Platte Feder Auflagebügel Zentrierscheibe oben Kurvenzahnrad Lademechanik Sicherungsring für Kurvenzahnrad Schaltkontakt Mikroschalter MSW L 541 T Gewindestange Laserschlitten Pulley Gewindestange Führungsrolle Gewindestange Laserabtaster kpl. Riemen Lasermotor Gleitstange	Tray Lifter Spring lifter Disk cramper Drive gear E-Ring spring LSG-1223-31 Leaf SW Leaf switch MSW L 541 T Lead screw laser Pulley feed S-rack lead screw Laser pick up Belt laser motor Guide shaft Disk motor Disk table	X 401  DM 1  DM 2  DM 4  DM 8  DM 11  DM 15  DM 17  DM 18  DM 22  DM 23  DM 25  DM 25  DM 29  DM 30	A 7 B 4 B 0 A 2 A 3 A 9 A 4 B 1 A 2 A 3 F 1 A 4
40 769 00 46 839 00 <b>Mechanisci</b> 46 755 00 46 756 00 46 869 00 46 758 00 34 315 00 46 759 00 44 132 00 46 870 00 44 121 00 46 870 00 44 116 00 44 116 00 44 116 00 44 761 00 46 762 00 46 762 00 46 872 00	Reramik-Oszillator CSA 4,00 MHz  Teile/Mechanical parts  Schlitten CD-Platte Auflagebügel CD-Platte Feder Auflagebügel Zentrierscheibe oben Kurvenzahnrad Lademechanik Sicherungsring für Kurvenzahnrad Schaltkontakt Mikroschalter MSW L 541 T Gewindestange Laserschlitten Pulley Gewindestange Führungsrolle Gewindestange Laserabtaster kpl. Riemen Lasermotor Gleitstange Motor Antrieb CD-Platte Antriebsteller	Tray Lifter Spring lifter Disk cramper Drive gear E-Ring spring LSC-1223-31 Leaf SW Leaf switch MSW L 541 T Lead screw laser Pulley feed S-rack lead screw Laser pick up Belt laser motor Guide shaft Disk motor	X 401  DM 1  DM 2  DM 4  DM 8  DM 11  DM 15  DM 17  DM 18  DM 22  DM 23  DM 25  DM 26  DM 29  DM 30  DM 34  DM 37	A 7 B 4 0 2 3 9 0 9 4 1 2 3 4 0 0 0 B 1
40 769 00 46 839 00 <b>Mechanisci</b> 46 755 00 46 756 00 46 869 00 46 758 00 34 315 00 46 759 00 44 132 00 46 870 00 44 121 00 46 871 00 46 760 00 44 116 00 44 124 00 46 761 00 46 762 00 46 872 00 46 872 00 46 872 00 46 872 00 46 763 00	Reramik-Oszillator CSA 4,00 MHz  Teile/Mechanical parts  Schlitten CD-Platte Auflagebügel CD-Platte Feder Auflagebügel Zentrierscheibe oben Kurvenzahnrad Lademechanik Sicherungsring für Kurvenzahnrad Schaltkontakt Mikroschalter MSW L 541 T Gewindestange Laserschlitten Pulley Gewindestange Führungsrolle Gewindestange Laserabtaster kpl. Riemen Lasermotor Gleitstange Motor Antrieb CD-Platte Antriebsteller Feder Antriebsteller Zentrierscheibe unten	Tray Lifter Spring lifter Disk cramper Drive gear E-Ring spring LSC-1223-31 Leaf SW Leaf switch MSW L 541 T Lead screw laser Pulley feed S-rack lead screw Laser pick up Belt laser motor Guide shaft Disk motor Disk table Locater spring Löcater	X 401  DM 1  DM 2  DM 4  DM 8  DM 15  DM 17  DM 18  DM 22  DM 22  DM 23  DM 25  DM 26  DM 29  DM 30  DM 34  DM 37  DM 38	A 7 B 4 0 2 3 9 0 9 4 1 2 3 1 3 4 0 0 0 1 3
40 769 00 46 839 00 <b>Mechanisci</b> 46 755 00 46 756 00 46 869 00 46 757 00 46 758 00 34 315 00 46 759 00 44 132 00 44 132 00 46 871 00 46 871 00 44 121 00 46 760 00 44 124 00 46 762 00 46 762 00 46 872 00 46 873 00 46 873 00	Keramik-Oszillator CSA 4,00 Mi-Iz  Teile/Mechanical parts  Schlitten CD-Platte Auflagebügel CD-Platte Feder Auflagebügel Zentrierscheibe oben Kurvenzahnrad Lademechanik Sicherungsring für Kurvenzahnrad Schaltkontakt Mikroschalter MSW L 541 T Gewindestange Laserschlitten Pulley Gewindestange Führungsrolle Gewindestange Laserabtaster kpl. Riemen Lasermotor Gleitstange Motor Antrieb CD-Platte Antriebsteller Feder Antriebsteller Zentrierscheibe unten Kappe Zentrierscheibe	Tray Lifter Spring lifter Disk cramper Drive gear E-Ring spring LSC-1223-31 Leaf SW Leaf switch MSW L 541 T Lead screw laser Pulley feed S-rack lead screw Laser pick up Belt laser motor Guide shaft Disk motor Disk table Locater spring	X 401  DM 1  DM 2  DM 4  DM 8  DM 11  DM 15  DM 17  DM 18  DM 22  DM 23  DM 25  DM 25  DM 26  DM 29  DM 30  DM 34  DM 37  DM 38  DM 39	A 7 B 4 0 2 3 9 0 9 4 1 2 3 4 0 0 0 B 1
40 769 00 46 839 00 <b>Mechanisci</b> 46 755 00 46 756 00 46 757 00 46 758 00 34 315 00 46 759 00 44 132 00 44 132 00 44 121 00 46 871 00 46 760 00 44 116 00 44 116 00 44 762 00 46 763 00 46 763 00 46 873 00 46 873 00 46 873 00 44 115 00	Reramik-Oszillator CSA 4,00 MHz  Teile/Mechanical parts  Schlitten CD-Platte Auflagebügel CD-Platte Feder Auflagebügel Zentrierscheibe oben Kurvenzahnrad Lademechanik Sicherungsring für Kurvenzahnrad Schaltkontakt Mikroschalter MSW L 541 T Gewindestange Laserschlitten Pulley Gewindestange Führungsrolle Gewindestange Laserabtaster kpl. Riemen Lasermotor Gleitstange Motor Antrieb CD-Platte Antriebsteller Feder Antriebsteller Zentrierscheibe unten	Tray Lifter Spring lifter Disk cramper Drive gear E-Ring spring LSC-1223-31 Leaf SW Leaf switch MSW L 541 T Lead screw laser Pulley feed S-rack lead screw Laser pick up Belt laser motor Guide shaft Disk motor Disk table Locater spring Löcater Locater cup	X 401  DM 1  DM 2  DM 4  DM 8  DM 11  DM 15  DM 17  DM 18  DM 22  DM 23  DM 25  DM 25  DM 26  DM 29  DM 30  DM 34  DM 37  DM 38  DM 39  DM 39  DM 40	A7 B4023909412313400133
40 769 00 46 839 00 <b>Mechanisci</b> 46 755 00 46 756 00 46 869 00 46 757 00 46 758 00 34 315 00 46 759 00 44 132 00 46 870 00 44 121 00 46 871 00 46 871 00 46 760 00 44 116 00 44 116 00 46 762 00 46 763 00 46 873 00 44 115 00 44 115 00 44 117 00	Reramik-Oszillator CSA 4,00 Mi-Iz  Teile/Mechanical parts  Schlitten CD-Platte Auflagebügel CD-Platte Feder Auflagebügel Zentrierscheibe oben Kurvenzahnrad Lademechanik Sicherungsring für Kurvenzahnrad Schaltkontakt Mikroschalter MSW L 541 T Gewindestange Laserschlitten Pulley Gewindestange Führungsrolle Gewindestange Laserabtaster kpl. Riemen Lasermotor Gleitstange Motor Antrieb CD-Platte Antriebsteller Feder Antriebsteller Zentrierscheibe unten Kappe Zentrierscheibe Motor pulley Laser Motor Laser	Tray Lifter Spring lifter Disk cramper Drive gear E-Ring spring LSC-1223-31 Leaf SW Leaf switch MSW L 541 T Lead screw laser Pulley feed S-rack lead screw Laser pick up Belt laser motor Guide shaft Disk motor Disk table Locater Locater cup Motorpuliey laser	X 401  DM 1  DM 2  DM 4  DM 8  DM 11  DM 15  DM 17  DM 18  DM 22  DM 23  DM 25  DM 25  DM 26  DM 29  DM 30  DM 34  DM 37  DM 38  DM 38  DM 38  DM 39  DM 40  DM 41	A7 BB02390941231340013316
40 769 00 46 839 00  Mechanisci 46 755 00 46 756 00 46 756 00 46 758 00 34 315 00 44 132 00 46 870 00 44 121 00 46 871 00 46 760 00 44 116 00 44 124 00 46 762 00 46 763 00 46 873 00 46 873 00 44 115 00 46 873 00 44 115 00 46 874 00	Keramik-Oszillator CSA 4,00 Mi-Iz  Teile/Mechanical parts  Schlitten CD-Platte Auflagebügel CD-Platte Feder Auflagebügel Zentrierscheibe oben Kurvenzahnrad Lademechanik Sicherungsring für Kurvenzahnrad Schaltkontakt Mikroschalter MSW L 541 T Gewindestange Laserschlitten Pulley Gewindestange Führungsrolle Gewindestange Laserabtaster kpl. Riemen Lasermotor Gleitstange Motor Antrieb CD-Platte Antriebsteller Feder Antriebsteller Zentrierscheibe unten Kappe Zentrierscheibe Motor Laser Motor Laser Gleithebei Kippmechanik	Tray Lifter Spring lifter Disk cramper Drive gear E-Ring spring LSG-1223-31 Leaf SW Leaf switch MSW L 541 T Lead screw laser Pulley feed S-rack lead screw Laser pick up Belt laser motor Guide shaft Disk motor Disk table Locater spring Locater Locater cup Motorpulley laser Motor laser	X 401  DM 1  DM 2  DM 4  DM 8  DM 11  DM 15  DM 17  DM 18  DM 22  DM 23  DM 25  DM 26  DM 26  DM 29  DM 30  DM 34  DM 37  DM 38  DM 39  DM 39  DM 39  DM 40  DM 41  DM 42	A7 BB023909412313400133167
40 769 00 46 839 00 <b>Mechanisci</b> 46 755 00 46 756 00 46 869 00 46 758 00 34 315 00 46 759 00 44 132 00 46 870 00 44 121 00 46 870 00 44 116 00 44 116 00 44 116 00 46 763 00 46 763 00 46 763 00 46 873 00 44 115 00 44 117 00 46 875 00 46 875 00	Reramik-Oszillator CSA 4,00 Mi-Iz  Teile/Mechanical parts  Schlitten CD-Platte Auflagebügel CD-Platte Feder Auflagebügel Zentrierscheibe oben Kurvenzahnrad Lademechanik Sicherungsring für Kurvenzahnrad Schaltkontakt Mikroschalter MSW L 541 T Gewindestange Laserschlitten Pulley Gewindestange Führungsrolle Gewindestange Laserabtaster kpl. Riemen Lasermotor Gleitstange Motor Antrieb CD-Platte Antriebsteller Feder Antriebsteller Zentrierscheibe unten Kappe Zentrierscheibe Motor pulley Laser Motor Laser	Tray Lifter Spring lifter Disk cramper Drive gear E-Ring spring LSC-1223-31 Leaf SW Leaf switch MSW L 541 T Lead screw laser Pulley feed S-rack lead screw Laser pick up Belt laser motor Guide shaft Disk motor Disk table Locater spring Locater Locater cup Motorpulley laser Motor laser Slide lever cam	X 401  DM 1  DM 2  DM 4  DM 8  DM 11  DM 15  DM 17  DM 18  DM 22  DM 23  DM 25  DM 26  DM 26  DM 29  DM 30  DM 34  DM 37  DM 38  DM 39  DM 39  DM 39  DM 40  DM 41  DM 42  DM 42  DM 42	A7 BB02390941231340013316
40 769 00 46 839 00 <b>Mechanisci</b> 46 755 00 46 756 00 46 869 00 46 757 00 46 758 00 34 315 00 46 759 00 44 132 00 46 870 00 44 121 00 46 871 00 46 871 00 46 760 00 44 116 00 44 116 00 46 762 00 46 763 00 46 873 00 44 115 00 44 115 00 44 117 00	Keramik-Oszillator CSA 4,00 Mi-Iz  Teile/Mechanical parts  Schlitten CD-Platte Auflagebügel CD-Platte Feder Auflagebügel Zentrierscheibe oben Kurvenzahnrad Lademechanik Sicherungsring für Kurvenzahnrad Schaltkontakt Mikroschalter MSW L 541 T Gewindestange Laserschlitten Pulley Gewindestange Führungsrolle Gewindestange Laserabtaster kpl. Riemen Lasermotor Gleitstange Motor Antrieb CD-Platte Antriebsteller Feder Antriebsteller Zentrierscheibe unten Kappe Zentrierscheibe Motorpulley Laser Motor Laser Gleithebei Kippmechanik Druckhebel Kippmechanik	Tray Lifter Spring lifter Disk cramper Drive gear E-Ring spring LSC-1223-31 Leaf SW Leaf switch MSW L 541 T Lead screw laser Pulley feed S-rack lead screw Laser pick up Belt laser motor Guide shaft Disk motor Disk table Locater spring Locater Locater cup Motorpulley laser Motor laser Slide lever cam Lever push	M 1 DM 1 DM 2 DM 4 DM 8 DM 11 DM 15 DM 17 DM 18 DM 22 DM 23 DM 25 DM 25 DM 26 DM 29 DM 30 DM 34 DM 37 DM 38 DM 38 DM 39 DM 39 DM 40 DM 41 DM 42 DM 48 DM 49	A7  BBAAA9094123134001331675
40 769 00 46 839 00  Mechanisci 46 755 00 46 756 00 46 869 00 46 758 00 34 315 00 46 759 00 44 132 00 46 870 00 44 121 00 46 871 00 46 760 00 44 116 00 44 124 00 46 761 00 46 763 00 46 873 00 44 115 00 44 115 00 44 117 00 46 874 00 46 875 00 46 875 00 46 875 00 46 875 00 46 875 00 46 875 00	Reramik-Oszillator CSA 4,00 Mi-Iz  Teile/Mechanical parts  Schlitten CD-Platte Auflagebügel CD-Platte Feder Auflagebügel Zentrierscheibe oben Kurvenzahnrad Lademechanik Sicherungsring für Kurvenzahnrad Schaltkontakt Mikroschalter MSW L 541 T Gewindestange Laserschlitten Pulley Gewindestange Führungsrolle Gewindestange Laserabtaster kpl. Riemen Lasermotor Gleitstange Motor Antrieb CD-Platte Antriebsteller Feder Antriebsteller Zentrierscheibe unten Kappe Zentrierscheibe Motorpulley Laser Motor Laser Gleithebei Kippmechanik Druckhebel Kippmechanik Zwischenrad/Lademechanik	Tray Lifter Spring lifter Disk cramper Drive gear E-Ring spring LSC-1223-31 Leaf SW Leaf switch MSW L 541 T Lead screw laser Pulley feed S-rack lead screw Laser pick up Belt laser motor Guide shaft Disk motor Disk table Locater spring Locater Locater cup Motorpulley laser Motor Jaser Slide lever cam Lever push Idle gear C	DM 1 DM 2 DM 4 DM 8 DM 11 DM 15 DM 17 DM 18 DM 22 DM 23 DM 23 DM 25 DM 26 DM 29 DM 30 DM 34 DM 37 DM 38 DM 37 DM 38 DM 39 DM 39 DM 40 DM 41 DM 42 DM 42 DM 42 DM 48 DM 49 DM 52	A 7 402390941231340013316753

## Explosionsdarstellung CD-Mechanik Queens 160/Queens 200 Exploded view CD mechanism

Explo-Index: CD



16

### Abgleichanweisung CD-Spieler

Benötigte Meßgeräte: Frequenzzähler

Test-CD Oszilloskop

#### VCO-Frequenzabgleich

Dieser Abgleich kann ohne CD-Platte durchgeführt werden.

- 1. Frequenzzähler an Testpunkt VCO und Masse anschließen.
- 2. Pin 6 der IC-Zusatzplatine mit Masse TJ 901 verbinden.
- Gerät einschalten.
- Mit Poti VR auf der IC-Zusatzplatine Frequenz auf 4,3218 ±0,01 MHz abgleichen.
- Kurzschlußbrücke an Pin 6 der IC-Zusatzplatine wieder entfernen.

## Alignment procedure CD player

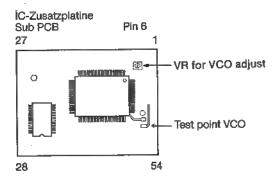
Instruments required: Frequency counter

Test disc Oscilloscope

#### VCO frequency adjustment

This VCO frequency adjustment does not need a CD disc.

- Connect the frequency counter to test point (VCO) and to ground (TJ 901).
- 2. Connect the Sub P.C.B. 6th pin to GND wire.
- 3. Set the unit power on.
- Adjust VR in Sub P.C.B. the frequency to 4.3218 ±0.01 MHz.
- 5. Resolder (Pin 6 in Sub P.C.B. and GND).

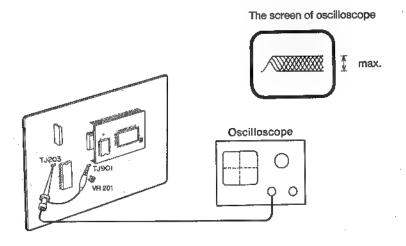


#### EF-Balance und Focus-Offset-Abgleich

- 1. CD-Platte einlegen und »PLAY«-Taste drücken.
- 2. Oszilloskop an Testpunkt TJ 203 und Masse TJ 901 an-
- 3. HF-Signal mit VR 201 und VR 301 auf Maximum abgleichen.

#### EF-Balance and Focus-Offset adjustment

- 1. Load a disc and play back.
- Connect an oscilloscope to the test points TJ 203 and ground (TJ 901).
- Adjust VR 201 and VR 301 so that the HF-Signal becomes maximum.



#### Fokus-Servo-Verstärkung

(Einstellung von Fokus- und Spurführungsverstärkung).
Für genauen Abgleich ist ein Servo-Analysator erforderlich.
Jedoch besteht bei Normalbetrieb auch dann keine Schwierigkeit, wenn eine geringe Abweichung von den zulässigen Werten
auftritt, da die Verstärkung in einem gewissen Bereich variieren
kann. Deswegen sollte dieser Abgleich nicht ausgeführt werden.
Mit der Fokus- und Spurführungsverstärkung werden Nachführeigenschaften des Abtasters bei mechanischen Erschütterungen
und Stößen während des Betriebs beeinflußt.

#### Focus servo gain adjustment

(Focus/Tracking-Gain adjustment)

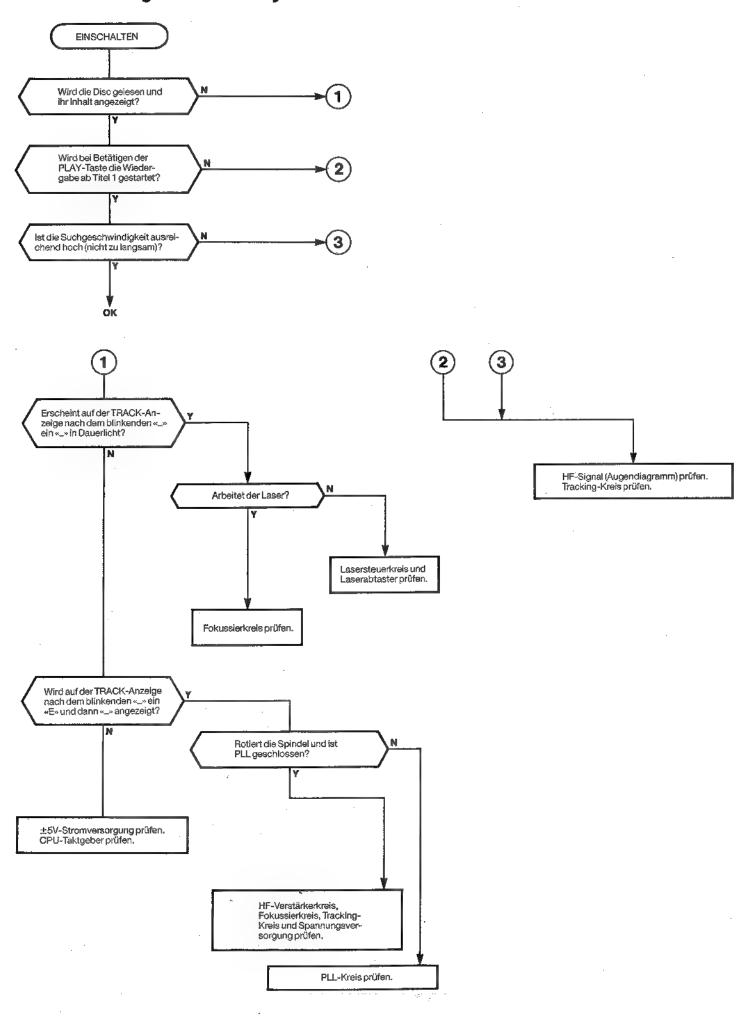
A servo-analyzer is required for accurate adjustment.

However, there will be no problem in normal operation even in case of a minor drift from precise adjustment because the gain has an allowable margin.

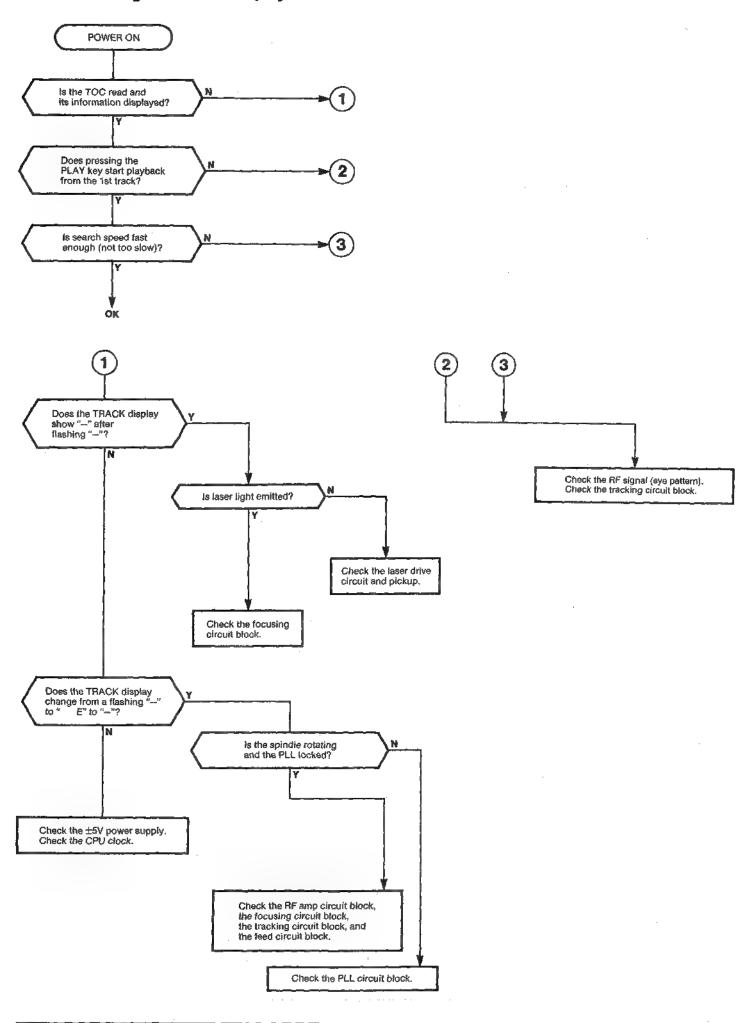
Therefore, do not apply this adjustment.

The Focus/Tracking-gain determines the tracking property of the pickup against the mechanical noise and mechanical shock during the operation.

## Fehlersuchdiagramm CD-Player

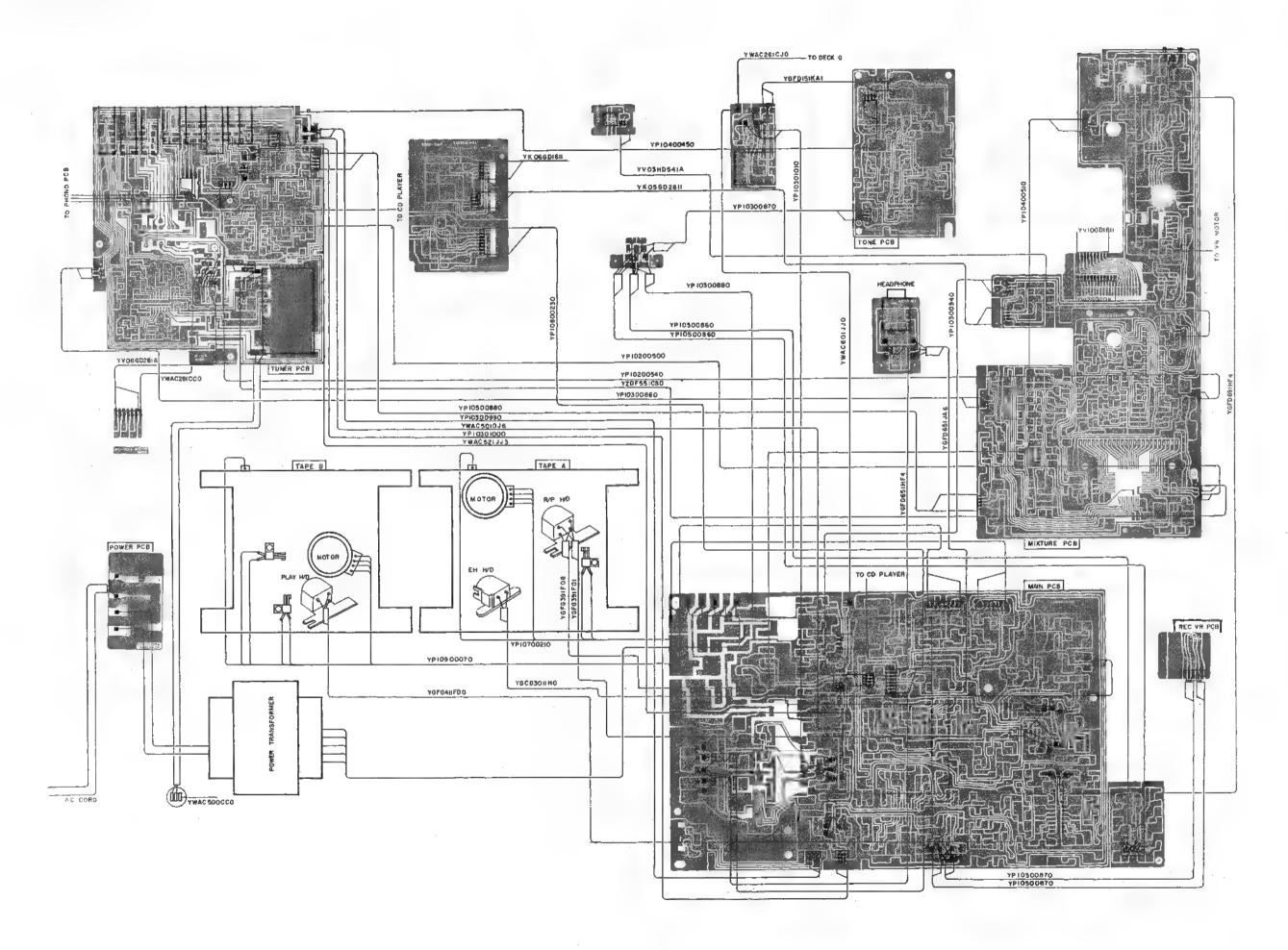


## Troubleshooting Flowchart CD player



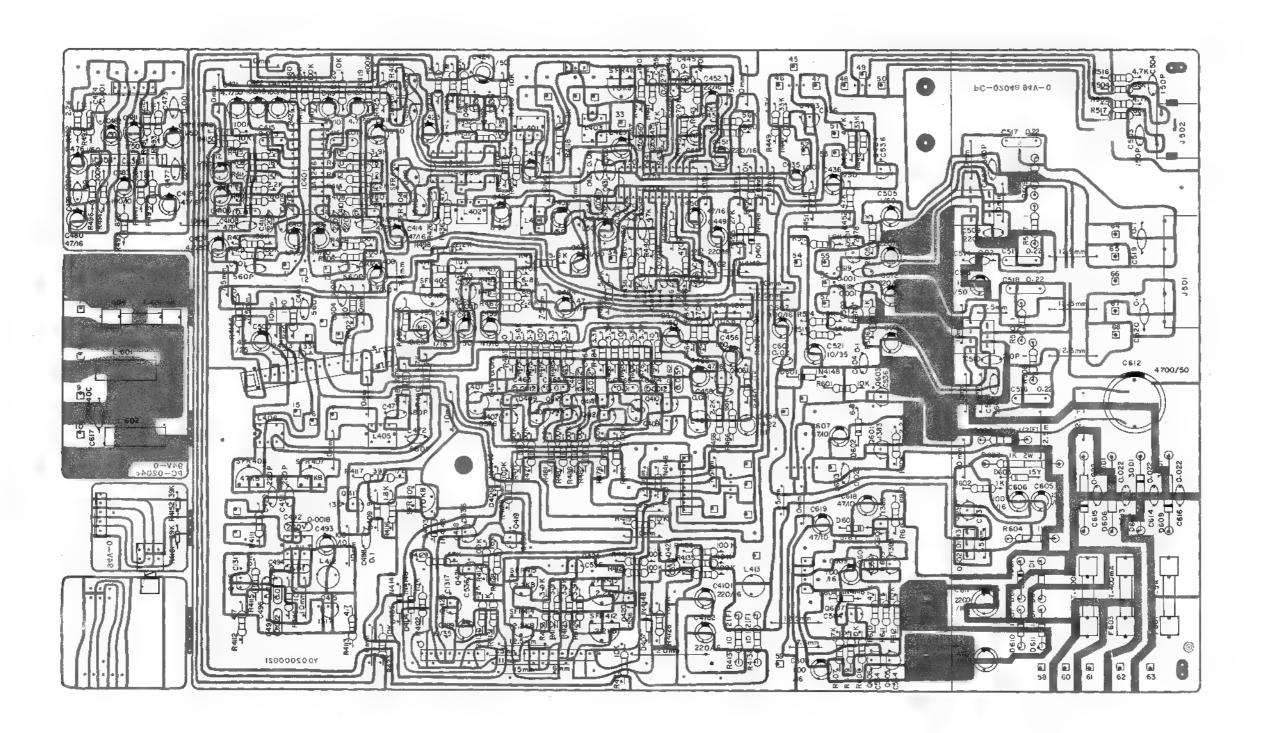
## Ersatzteilliste elektrisch Queens 200 (ohne CD) Spare parts list electrical Queens 200 (without CD player)

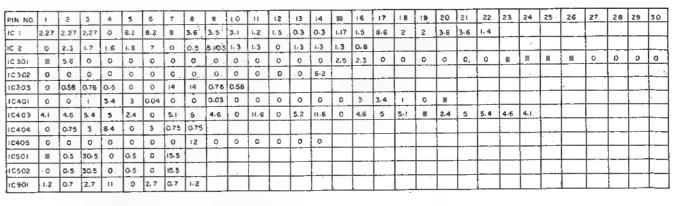
Bestell-Nr./ Part. No.	Bezeichnung	Description	Position	Preisgruppe/ Price key
48 009 00	Tunerplatine	Tuner P.C.B.		F3
48 010 00	Hauptplatine	Main P.C.B.		F7
48 011 00	Displayplatine	Display P.C.B.		F8
48 013 00	Klangreglerplatine	Tone P.C.B.		C9
48 012 00	Schalterplatine CD Tape	Control P.C.B. CD Tape		C8
46 850 00	Phono-Vorverstärker-Platine	Pre-amplifier phono		C3
48 002 00	IC LA 1265	IC LA 1265	IC 1	B7
13 558 00	IC LB 1416	IC LB 1418	IC 405	B5
46 829 00	IC LB 1641	IC LB 1641	IC 303	B2
31 481 00	IC UPD 1708 AG-728-00	IC UPD 1708 AG-728-00	IC 201	O2
38 286 00	IC TDA 2025	IC TDA 2025	IC 501/502	B7
32 997 00	IC LA 3161	IC LA 3161	IC 404/901	B0
37 730 00	IC LA 2746	IC LA 2746	IC 403	C3
40 799 00	IC LA 3246	IC LA 3246	IC 401	B2
21 596 00	IC LA 3361	IC LA 3361	IC 2	B1
26 131 00	IC TC 4013 BP	IC TC 4013 BP	IC 302	A8
32 998 00	IC TC 4066 BP	IC TC 4066 BP	IC 402	B0
46 830 00	IC LC 6546C - 4059	IC LC 6546C 4059	IC 301	C4
21 736 00	Transistor 2 SC 1815 GPt	Transistor 2 SC 1815 GR	Diverse	A 3
12 036 00	Transistor 2 SA 564 Q	Transistor 2 SA 564 Q	Diverse	A 8
37 957 00	Transistor 2 SA 1177 E	Transistor 2 SA 1177 E	Q 1	A 3
13 545 00	Transistor 2 SC 536 NP-F	Transistor 2 SC 536 NP-F	Diverse	A 3
08 012 00	Transistor 2 SC 1317	Transistor 2 SC 1317 Transistor 2 SC 1383 Q Transistor 2 SC 2634 S Transistor 2 SB 544 E/F Transistor 2 SC 2878	Diverse	A5
03 713 00	Transistor 2 SC 1383 Q		Q 601/609	A7
24 533 00	Transistor 2 SC 2634 S		Diverse	A3
44 096 00	Transistor 2 SB 544 E/F		Q 605	A5
34 691 00	Transistor 2 SC 2878		Q 501/502	A3
44 764 00	Transistor 2 SD 1913 🖩	Transistor 2 SD 1913 ■ Diode 1 ■ 4148 Diode KV 1236 Z 2 Diode 10 D 1 SIL	Q 602	A 1
11 241 00	Diode 1 N 4148		Diverse	A 2
40 288 00	Diode KV 1236 Z 2		D 1	B 7
12 039 00	Diode 10 D 1 SIL		Diverse	A 4
26 552 00 23 214 00 21 413 00 21 350 00 21 745 00 21 362 00	Diode 30 D-1 FC Zenerdiode GZA 9,1 Y Zenerdiode GZA 15 Z Zenerdiode GZA 6,2 X oder Y Zenerdiode GZA 6,8 Y Zenerdiode GZA 5,8 Y	Diode 30 D-1 FC Zenerdiode GZA 9.1 Y Zenerdiode GZA 15 Z Zenerdiode GZA 6.2 X or Y Zenerdiode GZA 6.8 Y Zenerdiode GZA 5.6 Y	D 604-607 D 409 D 603 D 207/304 D 602 D 605	A4 A1 A2 A3 A3
29 597 00	Leuchtdiode SLR-34VR5 (rot)	LED SLR-34VR5 (red)	X 402/410	A4
32 768 00	Leuchtdiode SLR-34 DU5 (orange)	LED SLR-34 DU5 (orange)	X 403-409	A4
37 414 00	Leuchtdiode SEL 2310 S GN (grün)	LED SEL 2310 ■ GN (green)	X 401	A2
12 110 00	Filter-Keramik 10,7-B	Ceramic Filter 10.7-B	F 1, 2	A6
48 003 00	Filter-Keramik BFU 455 CN 4	Ceramic Filter BFU 455 CN 4	F 4	A8
46 831 00	Ferritantenne LW/MW	Bar antenna coil LW/MW	L 2	B4
37 784 00	Spule 100 µH	Coil 100 µH	L 412/413	A4
37 763 00	Spule 3,9 mH	Coil 3.9 mH	L 409/410	A4
37 782 00 34 320 00 45 992 00 24 372 00	Spule 6,8 mH Drossel 100 μH Keramik-Filter SFZ 455 Spule AM	Coil 6.8 mH Choke coil 100 µH AM Ceramic Filter Filter Coil AM IFT Coil	L 407/408 L 1, 5 F 3 L 6 IF 2	A4 A3 B0 A6 A4
34 322 00 34 324 00 40 291 00 48 004 00 45 991 00 48 005 00 40 295 00	Spule AM Spule Netzleitung Spule MW-Oszillator LB 0541 Spule, Löschoszillator Spule LW-Oszillator Oszillator Oszillator Filter MPX	Air Coil Air Coil MW oscillator coil Tape oscillator coil LW oscillator coil Oscillator coil Filter MPX	L 601/602 L 4 L 411 L 3 L 401-406 L 7/8	A1 A3 A7 A4 A7
31 482 00	Quarz 4,5 MHz	X'tal 4.5 MHz	X 201	A8
46 839 00	Keramik-Oszillator CSA 4,00 MHz	Ceramic resonator CSA 4.00 MHz	X 301	A7
46 834 00	Drehwiderstand 100k Batance	Rotary VR 100k Balance	VR 803	B1
46 835 00	Drehwiderstand 100k Klang	Rotary VR 100k Tone	VR 801/802	B2
46 836 00	Motor-Drehwiderstand 100k Volumen	Rotary VR with motor 100k Volume	VR 501	D0
48 006 00	Drehwiderstand 10k Aussteuerung	Rotary VR 10k record level	VR 401	C0
37 022 00 37 444 00 37 443 00 32 587 00 37 441 00 34 538 00 18 576 00	Trimmpoti 1k Trimmpoti 2,2k Trimmpoti 10k Trimmpoti 22k Trimmpoti 4,7k Trimmpoti 4,7k Sicherungswiderstand 1 Ohm/¼ W Sicherungswiderstand 10 Ohm/½ W	Semi-fixed resistor 1k Semi-fixed resistor 2.2k Semi-fixed resistor 10k Semi-fixed resistor 22k Semi-fixed resistor 4.7k Semi-fixed resistor 4.7k Fuse resistor 1 Ohm/¼ W Fuse resistor 10 Ohm/¼ W	SFR 4 Diverse Diverse SFR 1 SFR 411 SFR 2 ■ 507-510 ■ 4137/4138	A 4 A 3 A 4 A 3 A 2 A 2 A 1
46 479 00 32 072 00 34 335 00 31 823 00 40 296 00 44 086 00 24 377 00	Sicherungswiderstand 22 Ohm/½ W Sicherungswiderstand 39 Ohm/½ W Sicherungswiderstand 220 Ohm/½ W Sicherungswiderstand 1 Ohm/1 W Trimmer Kondensator VTC 51A 144A 6pF Trimmer Kondensator VTC 51F 133A 30pF	Fuse resistor 22 Ohm/½ W Fuse resistor 39 Ohm/½ W Fuse resistor 220 Ohm/½ W Fuse resistor 200 Ohm/½ W Fuse resistor 1 Ohm/1 W Trimmer capacitor 6pF Trimmer capacitor 30 pF	R 321 R 918 R 606 R 604 CT 2 CT 1	A3 A1 A7 A3 A4 A3
46 837 00 46 838 00 40 306 00 48 840 00 48 007 00 48 008 00 40 305 00	Display Tuner LTP6M9011A Display CD LTP4R2011A Tuner FE 407/ET-A036 Lämpchen 15V 30mA IR-Empfänger Queens 200 Netztrafo Microschalter Bandsorte	Display Tuner LTP6M9011A Display CD LTP4R2011A Tuner FE 407/ET-A036 Pilot lamp 15V/30mA IR-Receiver Queens 200 Power transformer Leef switch tape select	LCD 201 LCD 701	C7 C6 D6 A4 C2 D7
34 545 00 34 033 00 44 089 00 29 747 00 46 832 00 34 034 00	Tipptaste  A/W-Schiebeschalter  Netzschalter  Tastenschalter  Tastensatz /fach Funktlon  Mikrofonbuchse	Tact switch Rec/PB switch Power switch Push switch Function switch Microphone jack	Diverse S 401 a-d SW 301 SW 402-404 SW 1-8 J 401	A3 A8 B0 B1 C6 B3
46 842 00 24 358 00 34 338 00 32 952 00	Buchse Kopfhörer Buchse Antenne Buchse Lautsprecher (Doppel) Buchse Chinch CD	Headphone jack Antenna jack Speaker DIN jack 2-Pin RCA jack	J 502 J 501	B0 A6 A7 A6

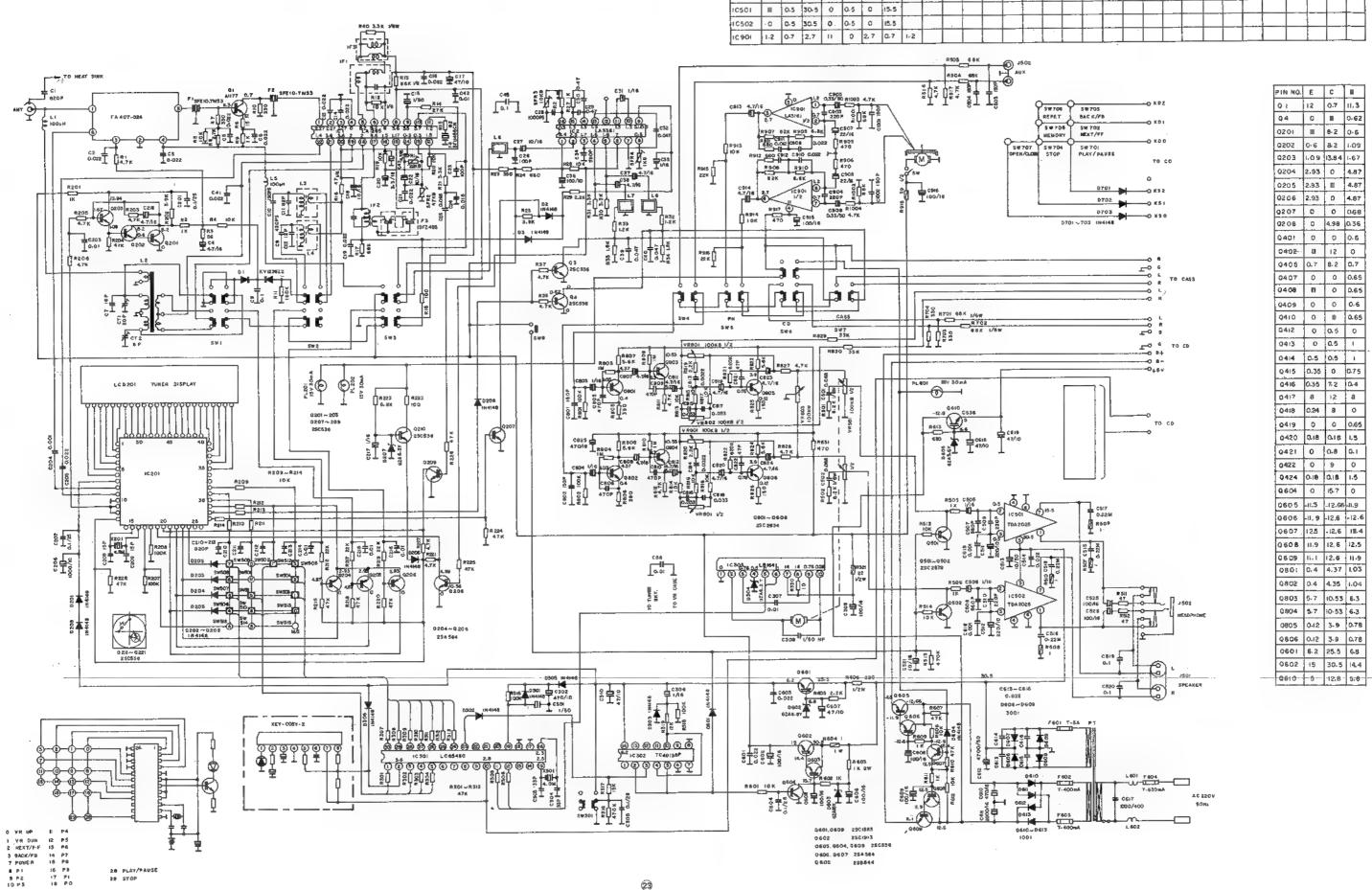


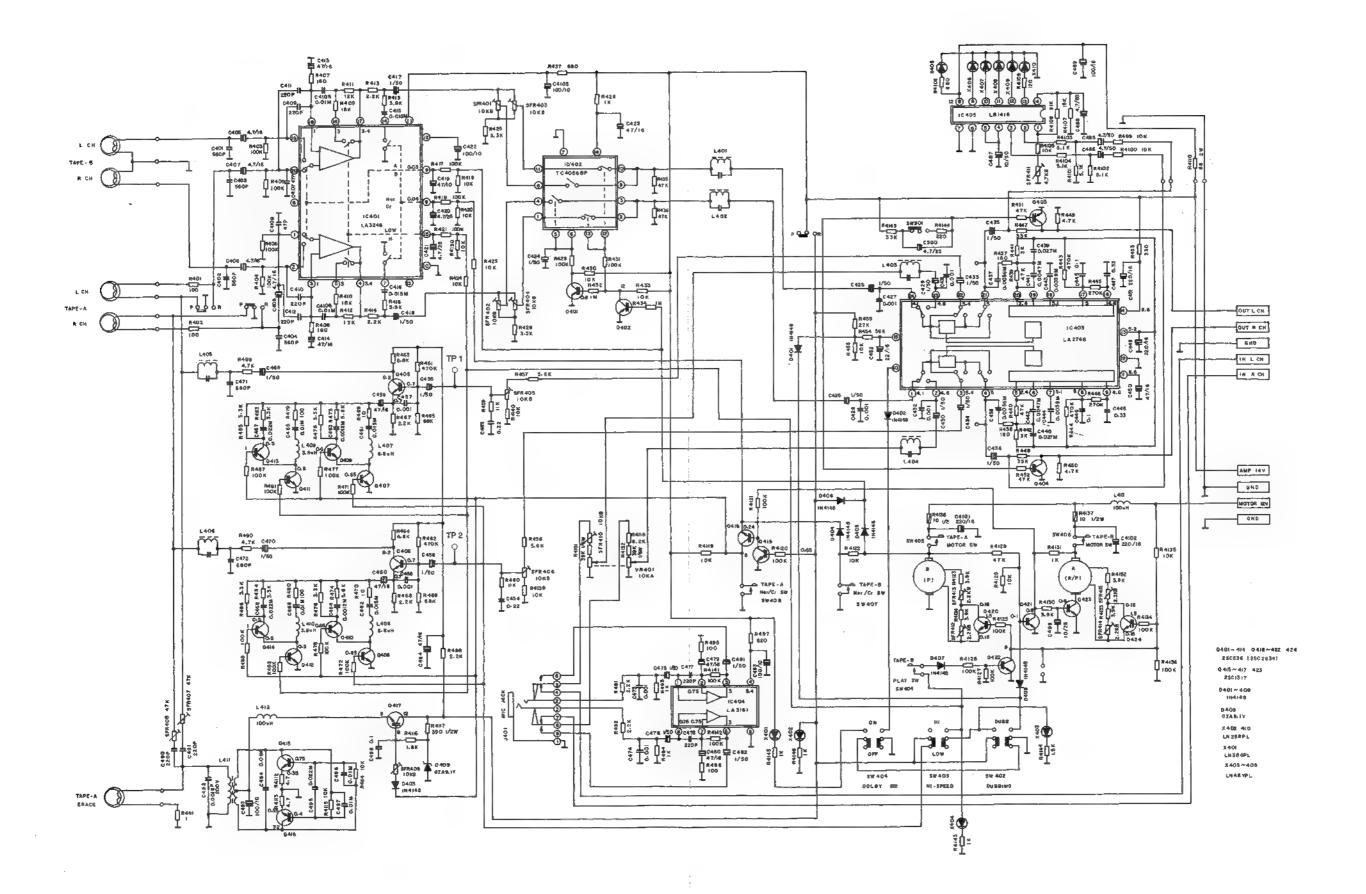
## Hauptplatine Queens 200 Main P.C.B. Queens 200

Bestückungsseite Top view



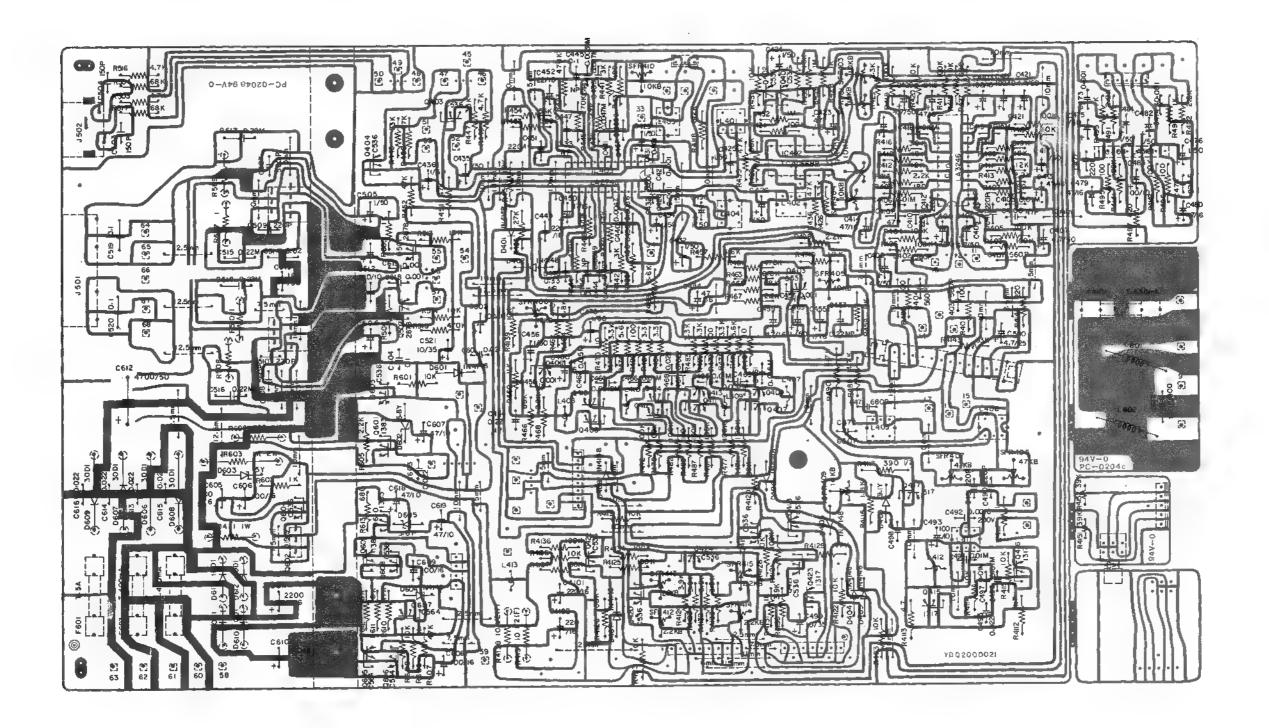






## Hauptplatine Queens 200 Main P.C.B. Queens 200

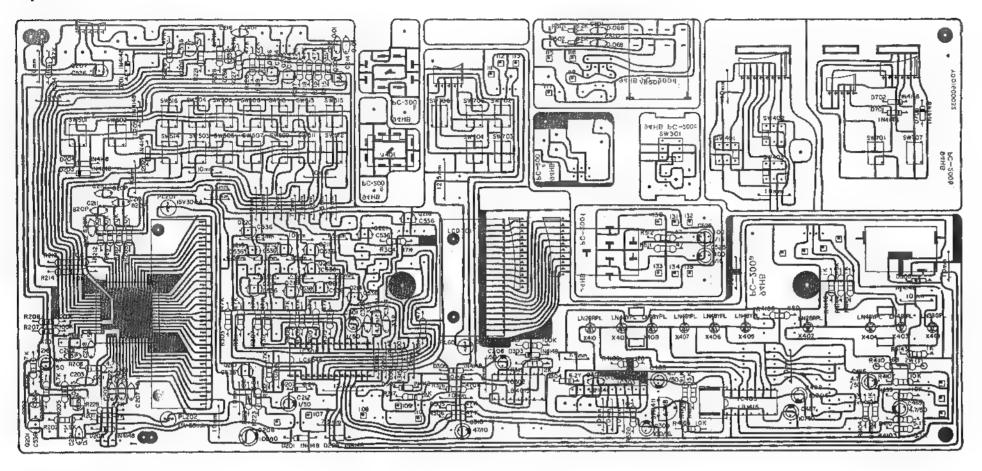
Leiterbahnseite Bottom view



## Displayplatine/Schalterplatinen CD-Tape, Queens 200 Display P.C.B./Switch P.C.B.'s CD-Tape, Queens 200

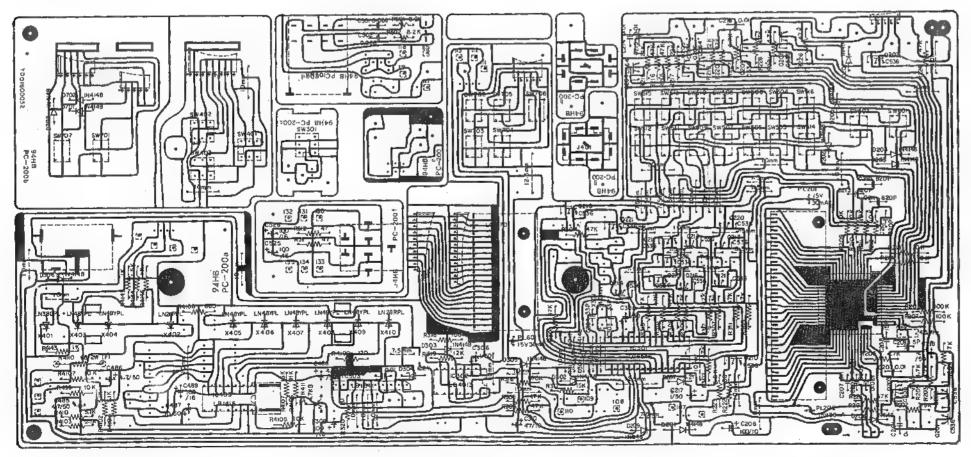
Bestückungsseite

Top view



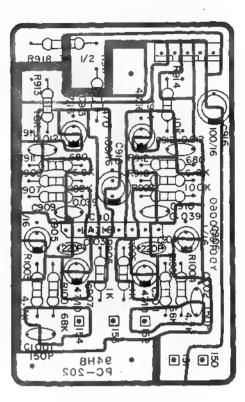
Leiterbahnseite

**Bottom view** 

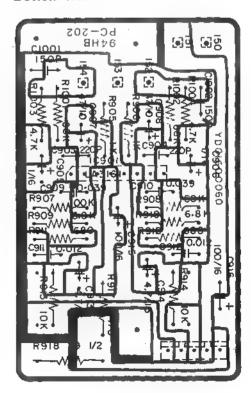


## Phono-Vorverstärkerplatine Pre-amplifier P.C.B. phono

Bestückungsseite Top view



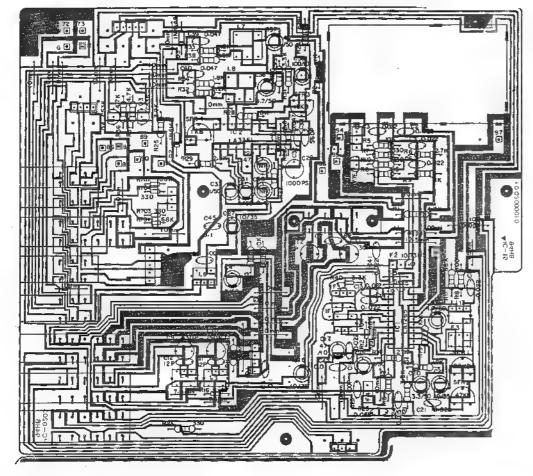
Leiterbahnseite Bottom view



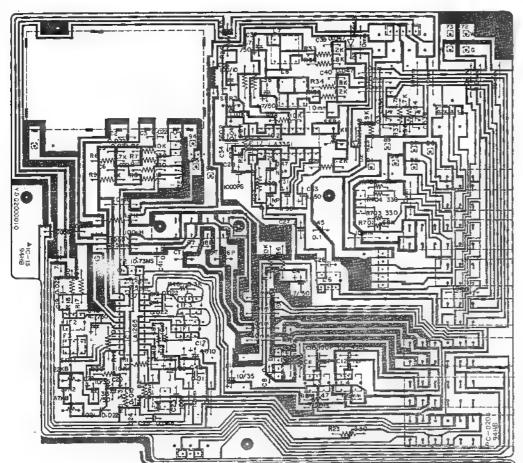
## Tunerplatine Queens 200 Tuner P.C.B. Queens 200

## Bestückungsseite

Top view

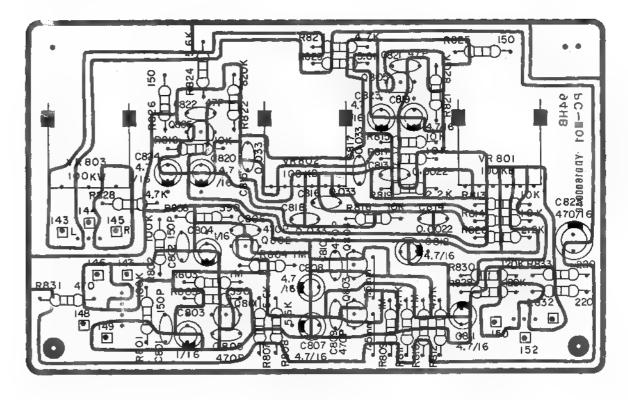


#### Leiterbahnseite Bottom view

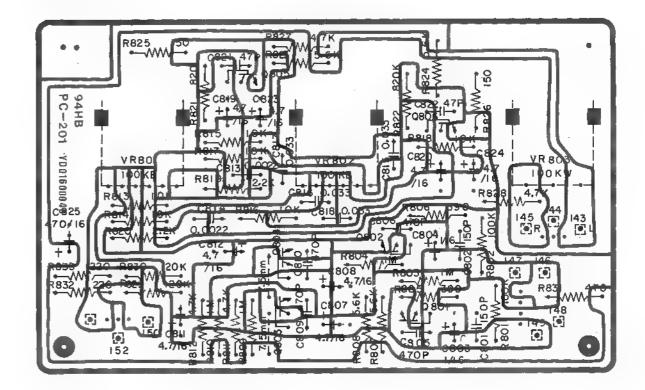


## Bestückungsseite

Top view



#### Leiterbahnseite Bottom view



#### ALIGNMENT PROCEDURE

#### MODEL Q200

1\_\_\_\_

#### GENERAL ALIGNMENT CONDITIONS

LW

- Signal input must be kept as low as possible to avoid overload and clipping.
   (Use highest possible sensitivity of output indicator.)
- 2. Signal input should be kept as low as possibel to avoid A.G.C. action. (Set output indicator to highest sensitivity.)
- 3. Marker insertion and amplitude should not distort the oscillator and amplitude should not distort the oscilloscope trace.
- 4. Standard modulation is 400 Hz 30%.

#### INSTRUMENT REQUIRED

Signal source

Output indicators

\* AM signal generator \*

\* AC millivolt meter \*

\* Radio sweep generator \*

\* Oscilloscope \*

\* Sweep oscilloscope \*

STEP	CONNECT SIGNAL SOURCE TO -	CONNECT OUTPUT INDICATOR -	SET SIGNAL OR INSERT MARKER	l .	ADJUST	ADJUST FOR -
1	Set function se	lector switch on th	e front panel t	o "LW " posi	tion.	
2	Signal generator connected to	meter and	137 KHz	137 KH2	LW OSC L - 3	
3	a loop	oscilloscope connected across speaker	290 KHz	290 KHz		
4			170 KHz	170 KHz	LW BAR ANT COIL	maximum
5			270 KHz	270 KHz	FM Trimmer CT - 1	
6	Repeat step 3 th	nrough 6 as necessa	ry to obtain ma	ximum sensitiv	ity on stat	ion.
	Signal generator connected to a loop	AC millivolt meter and oscilloscope connected across speaker	164 KHz	164 KHz	SFR - 1	Auto lock at about 66 dB

#### ALIGNMENT PROCEDURE

#### MODEL Q200

#### GENERAL ALIGNMENT CONDITIONS

MW -

- 1. Signal input must be kept as low as possible to avoid overload and clipping. (Use highest possible sensitivity of output indicator.)
- 2. Signal input should be kept as low as possible to avoid A.G.C. action. (Set output indicator to highest sensitivity.)
- 3. Maker insertion and amplitude should not distort the oscillator and amplitude should not distort the oscilloscope trace.
- 4. Standard modulation is 400 Hz.

#### INSTRUMENTS REQUIRED

Signal source

Output indicators

\* AM signal generator \*

\* AC millivolt meter \*

\* Radio sweep generator \*

\* Oscilloscope \*

\* Sweep oscilloscope \*

STEP	CONNECT SIGNAL SOURCE TO -	CONNECT OUTPUT INDICATOR -	SET SIGNAL OR INSERT MARKER	SET RADIO DIAL TO -	ADJUST	ADJUST FOR -
1	Set function se	elector switch on t	he front panel	to "MW" posi	tion.	
2	connected to a loop or short piece of wire	Sweep oscilloscope connected to wire pin of the C 43 of C 44 and volume to mzximum		Quiet point on band near 513 KHz	F 2	Ampltude of filter
3	Signal generat- or connected to	meter and	513 KHz	513 KHz	AM OSC L 4	
4	a loop	oscilloscope connected across spraker	1620 KHz	1620 KHz		
5			600 KHz	600 KHz	AM BAR ANT COIL	maximum
6			1400 KHz	1400 KHz	RF Trimmer	
7	Repeat step 3 1	through 6 necessary	to obtain maxi	mum sensitivit	y on station	1.

#### ALIGNMENT PROCEDURE

MODEL Q200

#### GENERAL ALIGNMENT CONDITION

FM

- 1. Signal input must be kept as low as possible to avoid occrload clipping. (Use highest possitivity of output indicator.)
- 2. Makers must be accurate (crystal controlled or calibrated). The 10.7 MHz marker used in each section of the FM alignment must be the same.
- 3. Signal input should be kept as low as possible to avoid A.G.C. action. (Set output indicator to highest sensitivity.)
- 4. FM signal generator RF output frequency must be monitoring.
- 5. Standard modulation is 1 KHz ( 40 KHz)

INSTRUMENTS REQUIRED

Signal sources

\* FM signal generator \*

\* Radio sweep generator \*

\* Sweep oscilloscope \*

Output indicators

\* AC millivolt meter \*

\* Oscilloscope \*

\* 114 KHz signal generator \*

\* Frequency counter \*

STEP	CONNECT SIGNAL SOURCE TO -	CONNECT OUTPUT INDICATOR TO -	SET SIGNAL OR INSERT MARKER	SET RADIO DIAL TO	ADJUST	ADJUST FOR -
1	Set function se	lector switch on	the front panel	to "FM " pos	sition.	
2	Radio sweep generator connect to FM front ent tuner pin 3	Oscilloscope connected to wire pin of the C 43 of C 44 and volume VR to maximum	10.6 10.7 10.8 MHz marker	Quiet scale pointer on band	IF 7 IF 3	Straightness and symmetry of "S" curve with 10.7 MHz makerd at zero crossover

MPX

#### GENERAL ALIGNMENT CONDITION

1. Adjust FM signal generator output to 1mV (60dB) with MPX modulation 1 KHz

Deviation = 33.75 KHz

Pilot = 6 KHz

INSTRUMENTS REQUIRED

Signal source

Output indicator

\* FM signal generator \*

\* Frequency counter \*

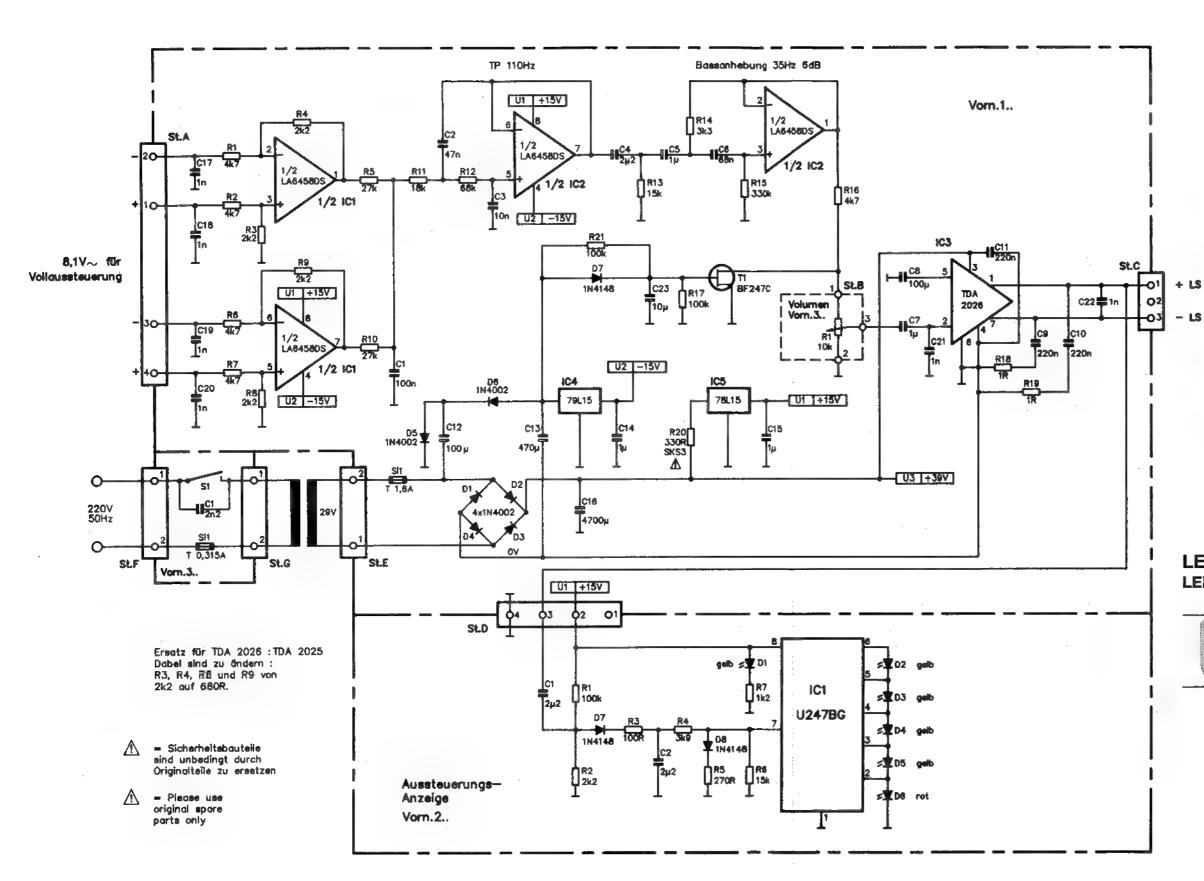
\* Stereo signal generator \*

- \* AC millivolt meter \*
- \* Oscilloscope \*

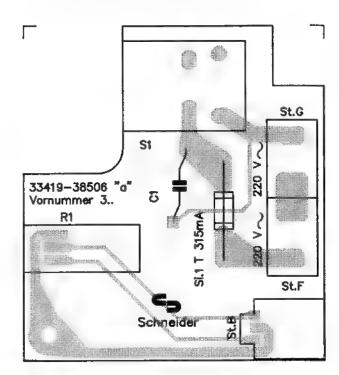
STEP		OCNNECT OUTPUT INDICATOR TO -	SET SIGNAL	SET RADIO	ADJUST	ADJUST FOR -
1	Set function se	elector switch on	the front panel	to "FM-STER	EO " Posit	ion.
2	generator	Frequency counter connect to MPX test point	98 MHz and modulation off, pilot signal off too	98 MHz	SFR - 3	19.00 KHz + / ~ 50 Hz

## **Abgleichanweisung Cassette Queens 200** Alignment procedure cassette Queens 200

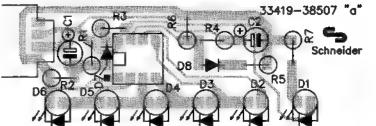
TAPE POSITION Recorderstellung	INPUT SIGNAL Eingangsspannung	TEST TAPE Testcassette	MEASURING INSTRUMENT Meßgerät	TEST POINT Meßpunkt	ADJUSTMENT LOCATION Abgleichpunkt	MEASURIN SIGNAL Meßsignal
. Head azimuth/	VW-Kopf-Einstell	ung				·
PLAYBACK		MTT-114 N 10 kHz	V.T.V.M AC-Millivoltmeter	OUT L CH OUT R CH	AZIMUTH SCREW	NF-max.
Tape speed/Ge	schwindigkeit					
PLAYBACK LOW		MTT- 111 N 3000 Hz	FREQUENCY COUNTER	OUT L CH OUT R CH	TAPE A SFR 415 TAPE B SFR 413	3000 Hz
PLAYBACK HIGH		MTT-111 N 3000 Hz	Frequenz- zähler	OUT L CH OUT R CH	TAPE A SFR 414 TAPE B SFR 412	4800 Hz
Dolby level/Doll	by-Pegel					· ·
PLAYBACK		MTT-150 DOLBY TAPE 400 Hz	V. T. V. M AC-Millivoltmeter	IC 403 Pin 4 Pin 21	TAPE A SFR 404 SFR 403 TAPE B SFR 402 SFR 401	580 mV
Oscillator coil fr	requency/Oszillato	orfrequenz				·
RECORD		AC-513 IEC-II	FREQUENCY COUNTER Frequenzzähler	ERASE HEAD Löschkopf	L-411	125 kHz
Trap coil/HF-Sp	erre		1	-	<u> </u>	#1
RECORD		AC-513 IEC-II	V. T. V. M AC-Millivoltmeter	R 489 R 490	L-405 L-406	MINIMUM
Head bias level/	Vormagnetisierun	9		· · · · · · · · · · · · · · · · · · ·	f	
RECORD		AC-513 IEC-II	V. T. V. M	R/P HĒAD	SFR 407/SFR 408	76 mV
		AC-212 IEC-I	AC-Millivoltmeter	R/P HEAD	SFR 409	55 mV
Level meter/Anz	eige					
RECORD	AUX IN 1 kHz/500 mV	AC-513 IEC-II	VR 401 to 580 Pin 4/P Mit VR 401 an IC 403	in 20	SFR-411 5 YELLO SFR-411 so abglei 5 gelben LED's	chen, daß alle
Record level/Aut	inahmepegel					
RECORD	AUX IN 1 kHz/500 mV	AC 513 IEC-II	V. T. V. M AC-Millivoltmeter	TP 1 TP 2	VR 401 to 580 mV at IC 403 Pin 4/Pin 20 SFR 405/SFR 406	185 mV
Löschspannu	ng: Fe: Cr:	ca. 150 Vss ca. 200 Vss		·-		
Vormagnetisie	rung: Fe:	ca. 65 Vss				



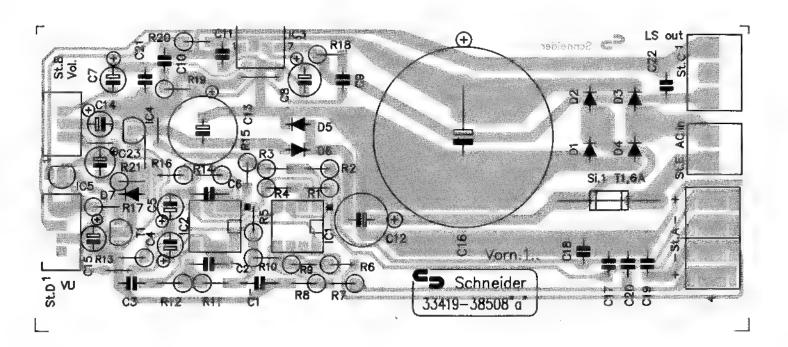
## Netzschalter-Platine Subwoofer Power switch P.C.B. Subwoofer



## LED-Kette-Platine Subwoofer LED power meter P.C.B. Subwoofer



## Verstärker-Platine Subwoofer Amplifier P.C.B. Subwoofer



## Ersatzteilliste Subwoofer Spare parts subwoofer

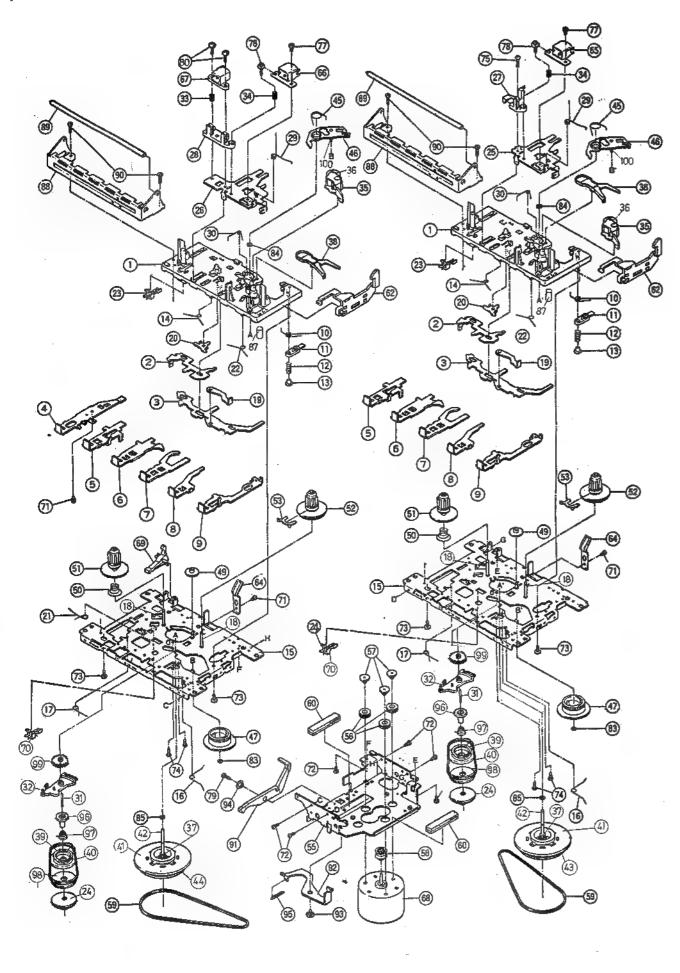
Bestell-Nr./ Part. No.	Bezeichnung	Description	Position	Preisgruppe/ Price key
47 063 00	Gehäuse Queens Subwoofer	Housing Queens subwoofer		D 9
47 061 00	Abdeckgitter Queens Subwoofer (vorn)	Mask Queens subwoofer (front)		B8
47 066 00	Abdeckgitter Queens Subwoofer (oben)	Mask Queens subwoofer (top)		B 5
47 D79 D0	Frontteil Queens Subwoofer	Front panel Queens subwoofer		D.5
11 970 00	Frontblende Queens (Plexiglas)	Front window Queens (plexiglass)		G 4
7 747 00	Fuß 50 mm mit Gummi	Foot 50 mm with rubber		Ã8
18 331 00	Tastenknopf 24 × 15,5 (Power on/off)	Knob push 24 × 15.5 (Power on/off)		A3
18 336 00	Drehknopf 14,6 (Bass level)	Knob VR 14.6 (Bass level)		A3
27 638 00	Lautsprecher II Ohm KW-200-1328	Speaker 8 Ohm KW-200-1328		D2
38 487 00	Trafo El 66	Power transformer El 66		D8
11 760 00	Buchse Lautsprecher	Speaker jack		АЗ
39 258 00	Verstärker-LP kpl. MS1	Amplifier P.C.B. assembly		D 5
38 510 00	Transistor BF 247 C	Transistor BF 247 C	T 101	В0
23 257 00	IC LA 6458 DS Dual-OP	IC LA 6458 DS	IC 101/102	A 9
38 511 00	IC 78 L 15	IC 78 L 15	IC 105	A 3
38 512 00	IC 79 L 15	TC 79 L 15	TC 104	A3
38 286 00	IC TDA 2025	IC TDA 2025	IC 103	В7
38 007 00	Zenerdiode ZPD 18(K)	Zenerdiode ZPD 18	D 107	A 1
31 729 00	Diode 1 N 4002	Diode 1 N 4002	D 101	A 2
38 555 00	Sicherungswiderstand 330 Ohm/1/s W	Fuse resistor 330 Ohm/1/3 W	R 120	A 2
39 259 00	Netzschalter-LP kpl. MS1	Power switch P.C.B. assembly		C3
38 486 00	Drehwiderstand Lautstärke 10 K	Rotary VR 10 K volume	R 301	B5
38 030 00	Netzschafter	Power switch	\$ 301	B 2
39 260 00	LED-Kette-LP kpl. MS1	LED Power meter P.C.B. assembly		C 1
02 424 00	IC U 247 B Anzeige-IC	IC U 247 B (indication IC)	IC 201	B 5
31 463 00	Diode 1 N 4148 (Ă)	Diode 1 N 4148 (A)	D 207/208	A 1
38 502 00	Leuchtdiode rot	LED red	D 206	A 3
38 500 00	Leuchtdiode gelb	LED yellow	D 201-205	A 3
47 069 00	StyVerp. Queens Subwoofer/Unterschr.	Polyfoam Queens subwoofer		C6
47 068 00	Faltkarton Queens Subwoofer/Unterschr.			C8

## Ersatzteilliste Gehäuseteile Queens 160 Spare parts list housing parts Queens 160

lestell-Nr./ art. No.	Bezeichnung	Description	Position	Preisgruppe/ Price key
6 800 00	Frontteil	Front panel	A 1	C7
6 801 00	Gehäuseboden	Bottom chassis	A 2	Č6
6 802 00	Seitenteil rechts	Side panel right	A 3	C3
6 803 00	Seitenteil links	Side panel left	A 4	G 2
0.04.00	Taste On/Off	Button on/off	A 5	A 1
6 804 00	Tastenblock CD 2fach	Preset button CD 2×	A 6	Ã2
6 805 00		Preset button CD 5×	A 7	A 2
6 806 00	Tastenblock CD 5fach	Button dubbina (2)	A 8	ÃÔ
6 807 00	Taste Dubbing (2)		A 9	A2
6 808 00	Tastenblock Tuning	Button tuning Preset button 13×	A 10	A3
6 809 00	Tastenblock 13fach		A 10	
6 810 00	Tastenblende	Preset button frame		A7
6 811 00	Drehknopf 19 mm (Klang, Balance)	Knob VR 19 mm (Tone, balance)	A 12	A 1
6 812 00 6 833 00	Drehknopf 52 mm (Lautstärke) Taste Funktionswahl (7)	Knob main VR (Volume) Button function (7)	A 13 A 14	B 4 A 2
3 833 00	laste Fulktionswam (/)	Button fanction (1)		
6 813 00	Frontblende (Plexiglas)	LCD window	A 15	C 8
6 814 00	Blende CD-Schublade	CD door	A 16	A7
5 520 00	Schriftzug Schneider	Badge Schneider	A 17	A 3
6 815 00	Abdeckhaube	Dust cover	A 18	C 9
816 00	Zarge Plattenspieler	Player board	A 19	C 3
817 00	Rückwand	Back board	A 20	B 5
818 00	Plattenspieler kpl.	Player assembly	A 21	E 5
819 00	CD-Spieler kpl.	CD player	A 22	G 2
8 851 00	Doppel-CassMechanik TN-21ZSW-494	Double cass, mechanic TN-21ZSW-494	C 1	Ĕ8
820 00	Fembedienungsgeber Queens	Remote control	A 23	D 5
460 00	Plattenpuck	Adapter 45 rpm	A 24	A 2
821 00	Matte Plattenteller	Tum-table mat	A 25	B 5
822 00	Streuglas Tunerdisplay	Screen tuner display	B 4	A3
823 00	Streuglas CD-Display	Screen CD display	B 5	A 2
824 00	Reflektor Tunerdisplay	Reflector tuner display	B 6	A 2
825 00	Reflektor CD-Display	Reflector CD display	B 7	A 2
026 00	Steckhülse Funktionsschaiter	Spacer function switch	B 8	A 1
826 00	Pulley Zählwerk	Pulley tape counter	B 10	A 0
827 00	Gehäusefuß	Foot	B 22	A 9
7 813 00	Schamier Abdeckhaube	Hinge assembly	B 23	BÖ
828 00	Sicherungsknebel Funktionsschalter	Spacer function switch	B 31	ĀĬ
852 00	Cassettenfach	Cassette case	C 2	A 5
	Cassettenfachdeckel A	Cassette window A	Č 3	B1
6 853 00 8 854 00		Cassette window A	C 4	Bi
854 00	Cassettenfachdeckel B	Cass key small	C 5	A2
8 855 00 8 856 00	CR-Taste schmal CR-Taste breit	Cass. key arge	C 6	A2
				A 1
857 00	Taste Zählwerk	Counter knob	C 7	A 1
858 00	Zählwerkriemen	Counter belt	C 8	A 2
859 00	Zählwerk	Tape counter	C 9	B 4
790 00	Dämpfrad	Damper gear	C 10	A 2
0 791 00	Dämpfradhalter	Damper holder	C 11	A 2
6 860 00	Feder Cassettenfach	Cass. open spring	C 13	A 1
6 861 00	Feder AW-Schalter	Cass. rec. spring	C 14	A 2
6 862 00	Zierschraube	Screw bolt	D 17	A 1
6 843 00	Karton Queens 160/200	Carton Queens 160/200		C3
6 844 00	Styropor-Verpackung rechts	Poly foam right		C 0
6 845 00	Styropor-Verpackung links	Poly foam left		C 0
2 833 00	Queens 160 LS links	Queens 160 LS left		
2 834 00	Queens 160 LS rechts	Queens 160 LS right		
6 827 00		-Foot speakerbox		A-9

## Explosionsdarstellung Cassettenmechanik Queens 160 Exploded view cassette mechanism Queens 160

Explo-Index: CM



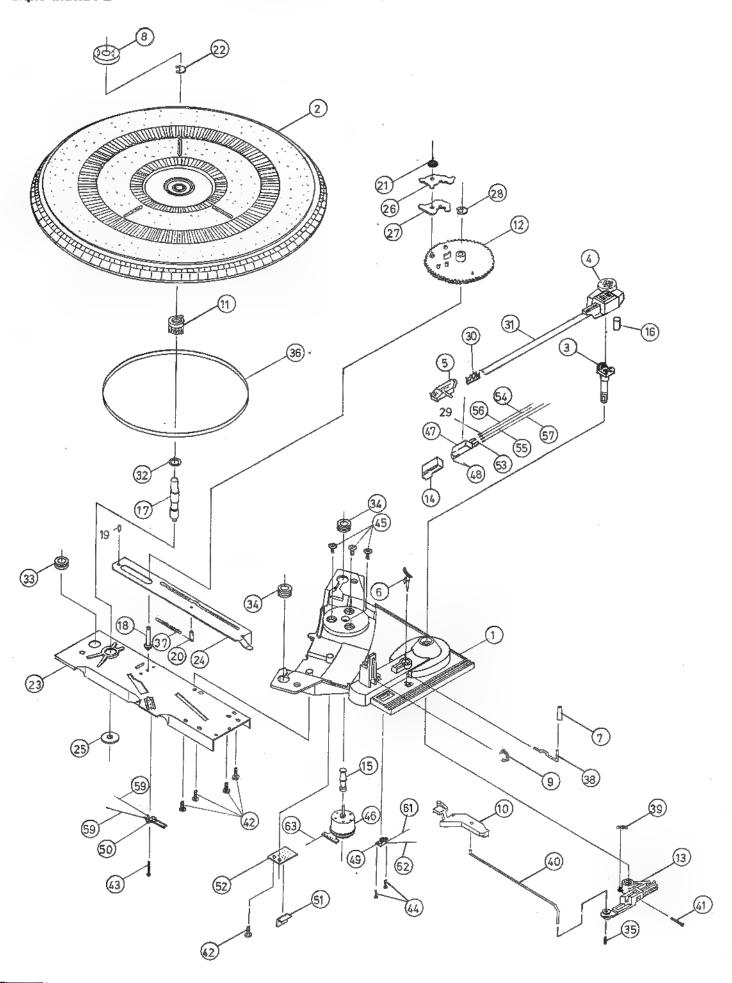
## Ersatzteilliste Cassettenmechanik Queens 160 Spare parts list cassette mechanism Queens 160

Bestell-Nr./ Part. No.	Bezeichnung	Description	Position	Preisgruppe/ Price key
46 863 00	Feder Pauserasthebel	Spring pause lever	GM 10	A 0
46 417 00	Pauserasthebel	Pause lever	CM 11	ΑĐ
44 130 00	Druckfeder Pauserasthebel	Spring pause lever	CM 12	A 0
44 131 00	Sicherungsstöpsel Pause	Pause stopper	CM 13	Α0
32 428 00	Feder Tastenhebel (Vor-, Rücklauf)	Button lever spring (FF, REW.)	CM 14	A3
46 864 00	Feder Aufnahmetaste	Spring rec. button	CM 21	Α0
32 423 00	Feder Tastenhebel (Stop, Pause)	Button lever spring (Pause, Stop)	CM 22	A3
44 132 00	Mikroschalter MSW L 541 T	Leaf switch MSW L 541 T	CM 23	A 4
45 760 00	Feder Kopfträgerplatte	Spring head panel	CM 29	A 1
32 432 00	Feder Löschkopf	Erase head spring	CM 33	A 3
32 435 00	Feder A/W-Kopf	Spring R/P head	CM 34	A3
32 436 00	Bandandruckroile kpl.	Pinch roller assembly	CM 35	B 6
44 135 00	Tasthebel Endabschaltung	Sensing lever stop	CM 38	ĀĪ
44 137 00	Rutschkupplung kpl.	RF clutch assembly	CM 39	A7
44 138 00	Riemen Rutschkupplung	Belt RF clutch	CM 40	A 4
46 865 00	Schwungmasse AW-Laufwerk	Fly-wheel R/P	CM 44	B 7
46 866 00	Schwungmasse Wiedergabe-Laufwerk	Fly-wheel Play mechanism	CM 43	B7
44 136 00	Kurvenzahnrad	Cam gear	CM 47	A 2
44 140 00	Zahnrad Vorlauf	FF gear	CM 49	A1
44 319 00	Feder Wickelteller links	Back tension spring	CM 50	ÃÔ
44 141 00	Wickelteller links	Supply reel	CM 51	A3
44 142 00	Wickelteller rechts kpl.	Take-up reel assembly	CM 52	A 4
46 436 00	Spange Wickelteller	Sensor	CM 53	Αi
32 453 00	Gummipuffer Motor	Motor rubber	CM 56	A 2
32 454 00	Schraube Motor	Motor collar screw	CM 57	A2
44 778 00	Pulley-Motor	Pulley motor	CM 58	A 6
4D 818 00	Antriebsriemen	Main belt	CM 59	A3
46 418 00	Gleithebel Eject	Eject slide lever	CM 62	A3
32 459 00	Cassettenandruckfeder	Pack spring	CM 64	Ã5
34 348 00	Wiedergabekopf	Play head	CM 65	B 6
34 349 00	A/W-Kopf	R/P head	CM 66	B6
24 513 00	Löschkopf	Erase head	CM 67	BÓ
46 177 00	Antriebsmotor SH U 2 L	Drive motor SH U 2 L	CM 68	C 6
32 451 00	Aufnahmesperhebel	Record safety lever	CM 69	A 5
44 133 00	Mikroschalter MSW-17820 MVDO	Leaf switch MSW-17820 MVDO	CM 70	A7
32 462 00	Sicherungsscheibe Schwungmasse	Polyslider washer fly-wheel	CM 85	A 0
46 867 00	Kick-Hebel Doppelpause	Kick lever pause	CM 91	A 1
46 868 00	Feder Kick-Hebel	Spring kick lever	CM 95	A 0

## Ersatzteilliste Plattenspieler Queens 160/Queens 200 Spare parts list player Queens 160/Queens 200

Bestell-Nr./ Part. No.	Bezeichnung	Description	Position	Preisgruppe/ Price key
46 819 00	Plattenspieler kpl.	Player assembly	A 21	E 5
48 018 00 48 019 00 48 020 00 48 020 00 46 182 00 03 460 00 34 357 00 48 021 00 48 022 00 48 023 00 48 024 00 40 829 00 32 868 00 48 025 00 14 229 00 48 026 00 48 027 00 48 028 00 34 371 00 48 029 00 48 030 00 48 031 00	Plattenspieler kpl.  Plattenteller mit Zahnrad Tonarm kpl. mlt System Tonarmlift Liftknopf Puck Clip Tonarmstütze Gleitschieber Motorschalter Kurvenrad Endschalthebel Nadelschutz Motorpulley Sicherungsring Plattenteller Gleithebel Sicherungsring Kurvenrad Lagergummi unten Lagergummi oben (2) Gummiring Antriebsriemen Feder Gleithebel Lifthebel Schubstange	Turn-table with gear Tone arm assembly with system Cueing shaft Knob Adapter Plck-up cramper Trip pawl Cam gear Control lever Stylus cover Motor pulley E-ring turn-table Drive plate E-ring cam gear Grommet Grommet Grommet Grommet Grommet Spring drive plate Cueing lever Control lever	PL 2+11  PL 6  PL 7  PL 8  PL 9  PL 10  PL 12  PL 13  PL 14  PL 15  PL 22  PL 24  PL 28  PL 33  PL 34  PL 35  PL 36  PL 37  PL 38  PL 38  PL 38	5 352121293120712200223
46 423 00 48 032 00 48 033 00	Motor SHR 2 R System Abtastnadel	Motor SHR 2 <b>□</b> Cartridge Stylus	PL 46 PL 47 PL 48	C 5 D 1 C 4
48 034 00 46 014 00	Schiebeschafter 33/45 Microschafter Motor	Slide switch Leaf switch	PL 49 PL 50	B 0 A 5

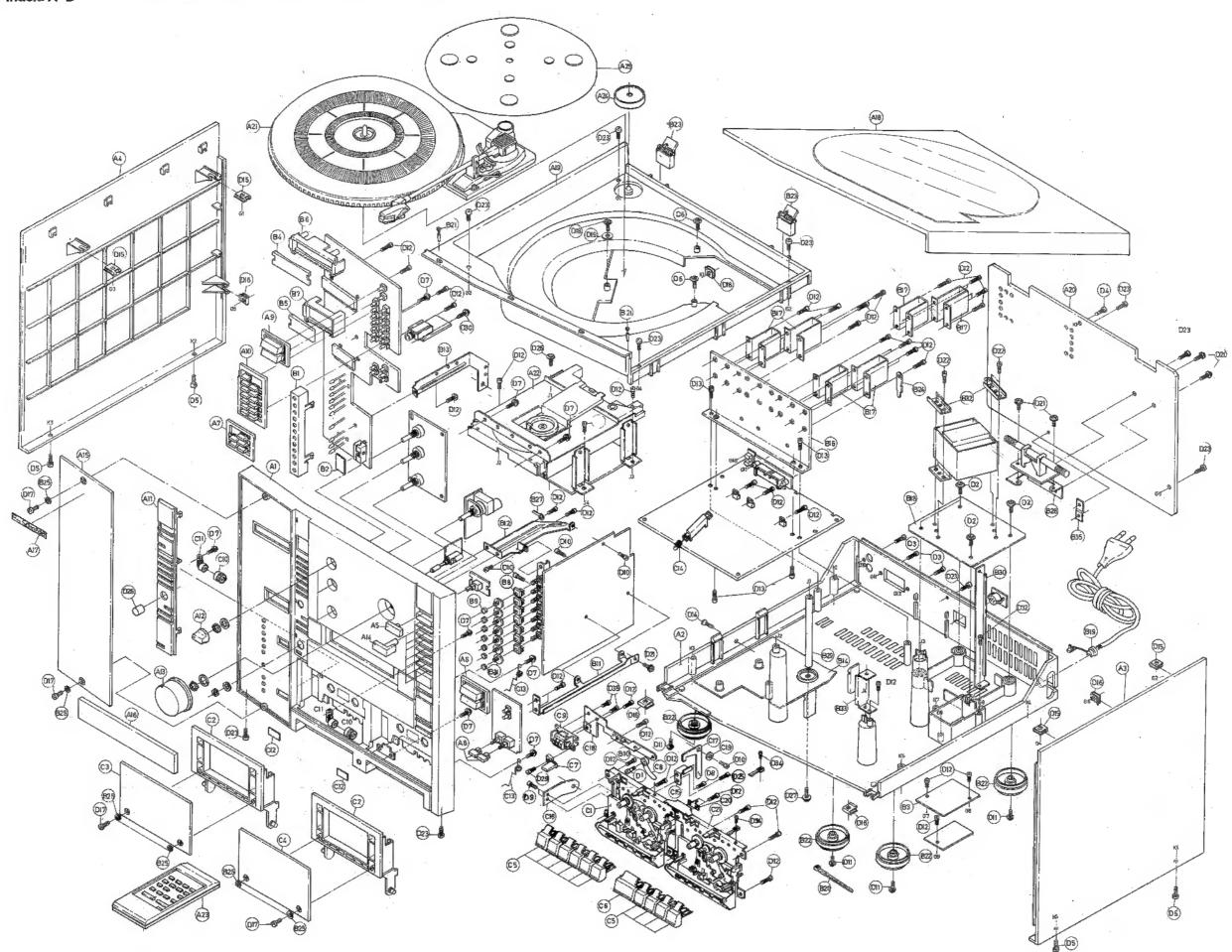
# Explosionsdarstellung Plattenspieler | Exploded view player Queens 160/Queens | Explo-Index: PL



## Ersatzteilliste Gehäuseteile Queens 200 Spare parts list housing parts Queens 200

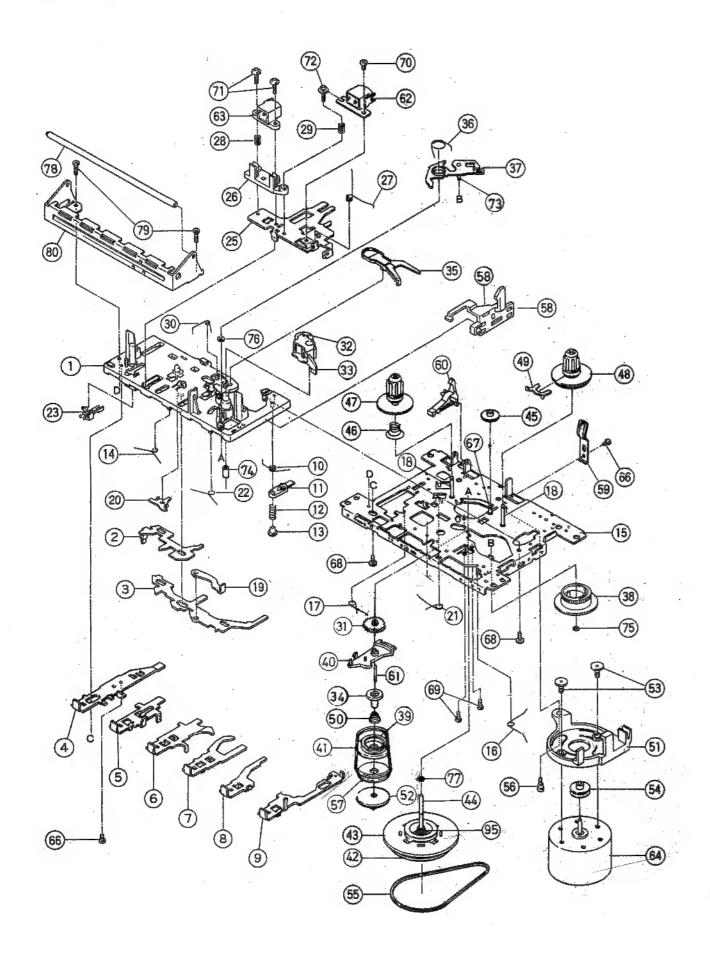
Bestell-Nr./ Part. No.	Bezeichnung	Description	Position	Preisgruppe/ Price key
16 995 00	Frontteil	Front panel	A 1	C7
16 996 00	Gehäuseboden	Bottom chassis	A 2	C 5
16 802 00	Seitenteil rechts	Side panel right	A 3	C3
16 803 00	Seitenteil links	Side panel left	A 4	C 2
	T	Button on/off	A. 5	A 1
16 804 00	Taste On/Off	Button on/off	A 6	ÂŻ
46 805 00	Tastenblock CD 2fach	Preset button CD 2×	A 7	Ã2
46 806 00	Tastenblock CD 5fach	Preset button CD 5×		ÃÔ
16 807 00	Taste Dubbing (2)	Button dubbing (2)	A 8	
16 808 00	Tastenblock Tuning	Button tuning	A 9	A 2
16 809 00	Tastenblock 13fach	Preset button 13×	A 10	A 3
16 997 00	Tastenblende	Preset button frame	A 11	A 7
16 811 00	Drehknopf 19 mm (Klang, Balance)	Knob VR 19 mm (Tone, balance)	A 12	A.1
16 812 00	Drehknopf 52 mm (Lautstärke)	Knob Main VR (Volume)	A 13	B 4
46 833 00	Taste Funktionswahl (7)	Button function (7)	A 14	A 2
16 813 00	Frontblende (Plexiglas)	LCD window	A 15	C8
46 814 00	Blende CD-Schublade	CD door	A 16	A7
35 520 00	Schriftzug Schneider	Badge Schneider	A 17	A3
4C 01E 00	Abdeckhaube	Dust cover	A 18	C 9
46 815 00		Player board	A 19	Čš
46 816 00	Zarge Plattenspieler	Back board	A 20	B5
46 817 00	Rückwand	Back board	A 20	53
46 818 00	Plattenspieler kpl.	Player assembly	A 21	E 5
46 819 00	CD-Spieler kpl.	CD player	A 22	G 2
46 998 00	CassMech. A/W TN-21ZSB-495	Cass. mech. R/P TN-21ZSB-495	C 1	ΕO
46 999 00	CassMech. Wiedergabe TN-21ZSB-496	Cass, mech. Play TN-21ZSB-496	C 21	D 9
46 820 00	Fernbedienungsgeber Queens	Remote control	A 23	D 5
03 460 00	Plattenpuck	Adapter 45 rpm	A 24	A2
46 821 00	Matte Plattenteller	Turn-table mat	A 25	B 5
	Observator Townseller less	Screen tuner display	В 4	A3
46 822 00	Streuglas Tunerdisplay		B 5	ÃŽ
46 823 00	Streuglas CD-Display	Screen CD display	B 6	Ã2
46 824 00	Reflektor Tunerdisplay	Reflector tuner display	B 7	A2
46 825 00	Reflektor CD-Display	Reflector CD display	ы	AZ
40 026 00	Steckhülse Funktionsschafter	Spacer function switch	B 8	A1
46 826 00	Pulley Zähłwerk	Pulley tape counter	B 10	A 0
46 827 00	Gehäusefuß	Foot	B 22	A 9
37 813 00	Scharnier Abdeckhaube	Hinge assembly	B 23	B 0
46 828 00	Sicherungsknebel Funktionsschalter	Spacer function switch	B 31	A 1
40.050.00	Cassettenfach	Cassette case	C 2	A 5
46 852 00		Cassette window A	Č 3	B 1
46 853 00	Cassettenfachdeckel A	Cassette window A	C 4	Вi
46 854 00	Cassettenfachdeckel B		C 5	A2
46 855 00 46 856 00	CR-Taste schmal CR-Taste breit	Cass, key small Cass, key large	C 6	A2
46 857 00	Taste Zählwerk	Counter knob	C 7	A1
46 858 00	Zählwerkriemen	Counter belt	C 8	A 2
46 859 00	Zählwerk	Tape counter	C 9	B 4
40 790 00	Dämpfrad	Damper gear	C 10	A 2
40 791 00	Dämpfradhalter	Damper holder	C 11	A 2
46 860 00	Feder Cassettenfach	Cass, open spring	C 13	A 1
48 000 00	Feder AW-Schalter	Cass. rec. spring	C 14	A 2
46 862 00	Zierschraube	Screw bolt	D 17	A 1
46 843 00	Karton Queens 160/200	Carton Queens 160/200		C3
46 844 00	Styropor-Verpackung rechts	Poly foam right		CO
	Styropor-Verpackung links	Poly foam left		CO
46 845 00				
	Outromia DOO LO Relia	Outcome 200 LC loft		
42 835 00	Queens 200 LS links	Queens 200 LS left		
46 845 00 42 835 00 42 836 00 46 827 00	Queens 200 LS links Queens 200 LS rechts Gehäusefuß LS-Box	Queens 200 LS left Queens 200 LS right Foot speakerbox		Α9





## Explosionsdarstellung Cassettenmechanik A/W Queens Exploded view cassette mechanism R/P Queens

Explo-Index: CM



# Explosionsdarstellung Cassettenmechanik Wiedergabe Exploded view cassette mechanism playback Explo-Index: CM

## Ersatzteilliste Cassettenmechanik Queens 200 Spare parts list cassette mechanism Queens 200

Bestell-Nr./ Part. No.	Bezeichnung	Description	Position	Preisgruppe/ Price key
46 863 00	Feder Pauserasthebel	Spring pause lever	CM 10	Α0
46 417 00	Pauserasthebel	Pause lever	CM 11	ΑD
44 130 00	Druckfeder Pauserasthebel	Spring pause lever	CM 12	A 0
44 131 00	Sicherungsstöpsel Pause	Pause stopper	CM 13	A 0
32 428 00	Feder Tastenhebel (Vor-, Rücklauf)	Button lever spring (FF, REW.)	CM 14	A3
46 864 00	Feder Aufnahmetaste	Spring rec. button	CM 21	A 0
32 423 00	Feder Tastenhebel (Stop, Pause)	Button lever spring (Pause, Stop)	CM 22	A 3
44 132 00	Mikroschalter MSW L 541 T	Leaf switch MSW L 541 T	CM 23	A4
44 133 00	Mikroschalter MSW-17820 MVDO	Leaf switch MSW-17820 MVDO	CM 24	Α7
45 760 00	Feder Kopfträgerplatte	Spring head panel	CM 27	A 1
32 432 00	Feder Löschkopf	Erase head spring	CM 28	A 3
32 435 00	Feder A/W-Kopf	Spring R/P head	CM 29	A 3
32 436 00	Bandandruckrolle kpl.	Pinch roller assembly	CM 32	B6
44 135 00	Tasthebel Endabschaltung	Sensing lever stop	CM 35	A 1
44 136 00	Kurvenzahnrad	Cam gear	CM 38	A 2
44 137 00	Rutschkupplung kpl.	RF clutch assembly	CM 39	A7
44 138 00	Riemen Rutschkupplung	Belt RF clutch	CM 41	A 4
46 865 00	Schwungmasse AW- u. WiedergLauf	werk Fly-wheel R/P and Play	CM 43	B7
44 140 00	Zahnrad Vorlauf	FF gear	CM 45	A 1
44 319 00	Feder Wickelteller links	Back tension spring	CM 46	A 0
44 141 00	Wickelteller finks	Supply reel	CM 47	A 3
44 142 00	Wickelteller rechts kpl.	Take-up reel assembly	CM 48	A 4
46 436 00	Spange Wickelteller	Sensor	CM 49	A 1
32 876 00	Pulley-Motor	Pulley motor	CM 54	A 5
44 143 00	Antriebsriemen	Main belt	CM 55	A 2
46 418 00	Gleithebel Eject	Eject slide lever	CM 58	A 3
32 459 00	Cassettenandruckfeder	Pack spring	CM 59	A 5
32 451 00	Aufnahmesperrhebel	Record safety lever	CM 60	A 5
34 056 00	A/W-Kopf	R/P head	CM 62	C 3
34 057 00	Wiedergabe-Kopf	Play head	CM 62	B 9
24 513 00	Löschkopf	Erase head	CM 63	В0
48 001 00	Antriebsmotor SHW 2L00	Drive motor SHW 2L00	CM 64	C 3